

FIG. 1A

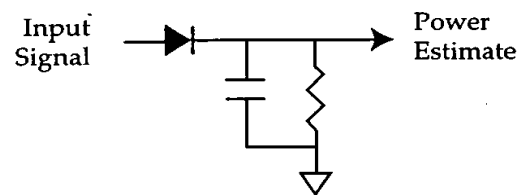


FIG. 1B

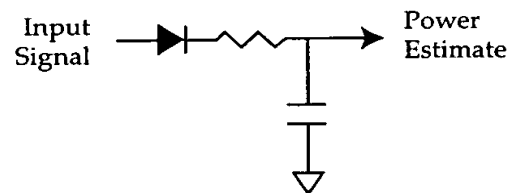


FIG. 1C

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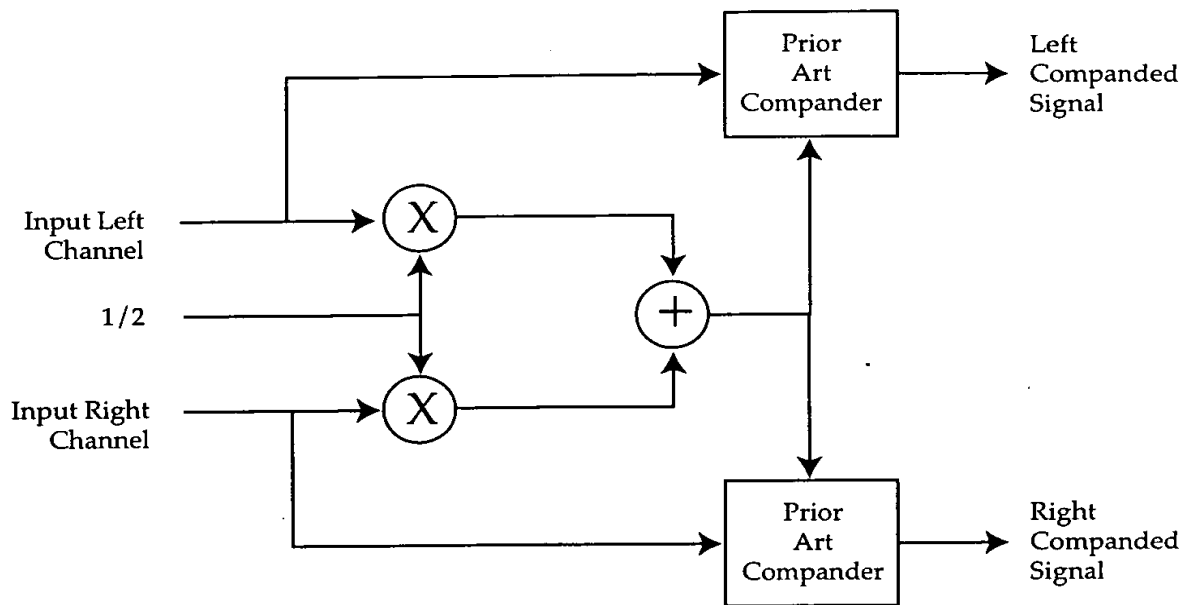


FIG. 1D

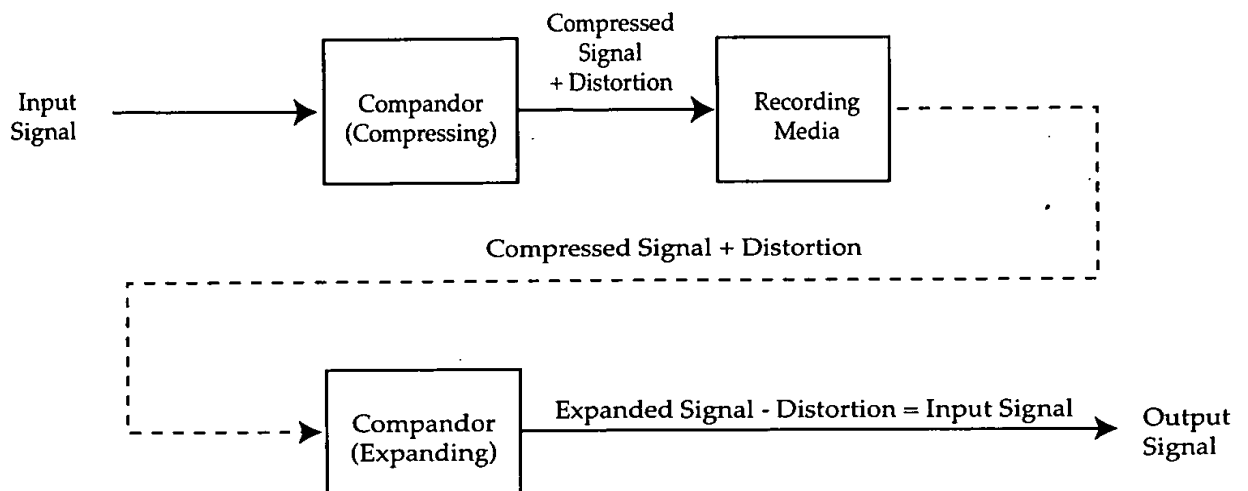


FIG. 1E

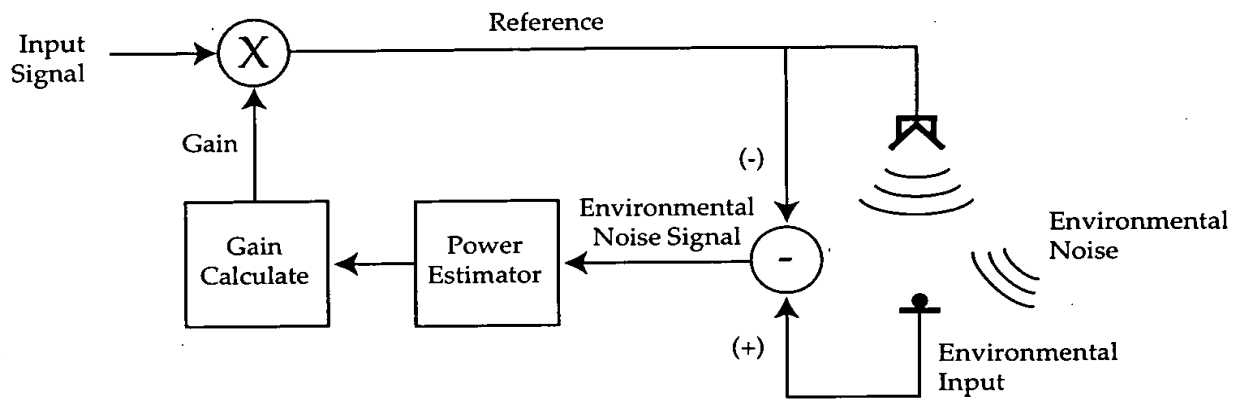


FIG. 2

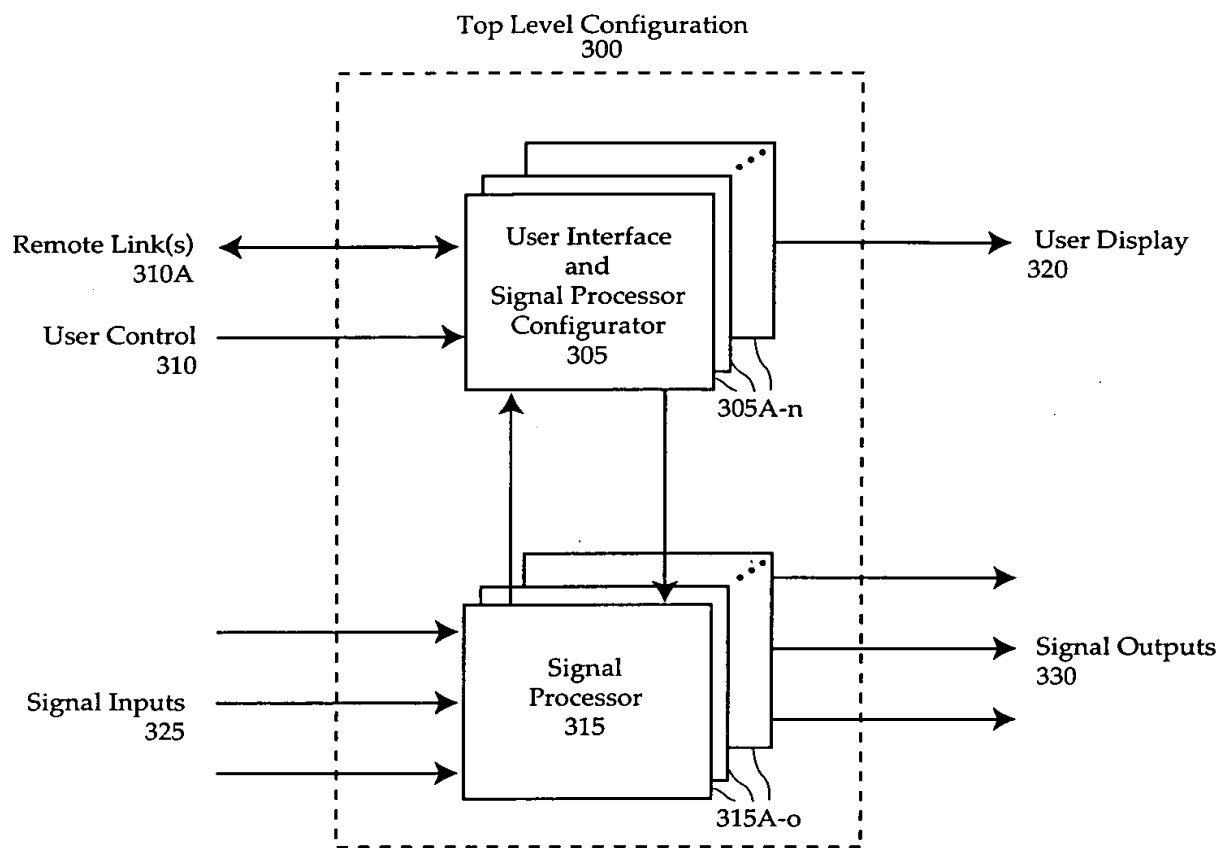


FIG. 3A

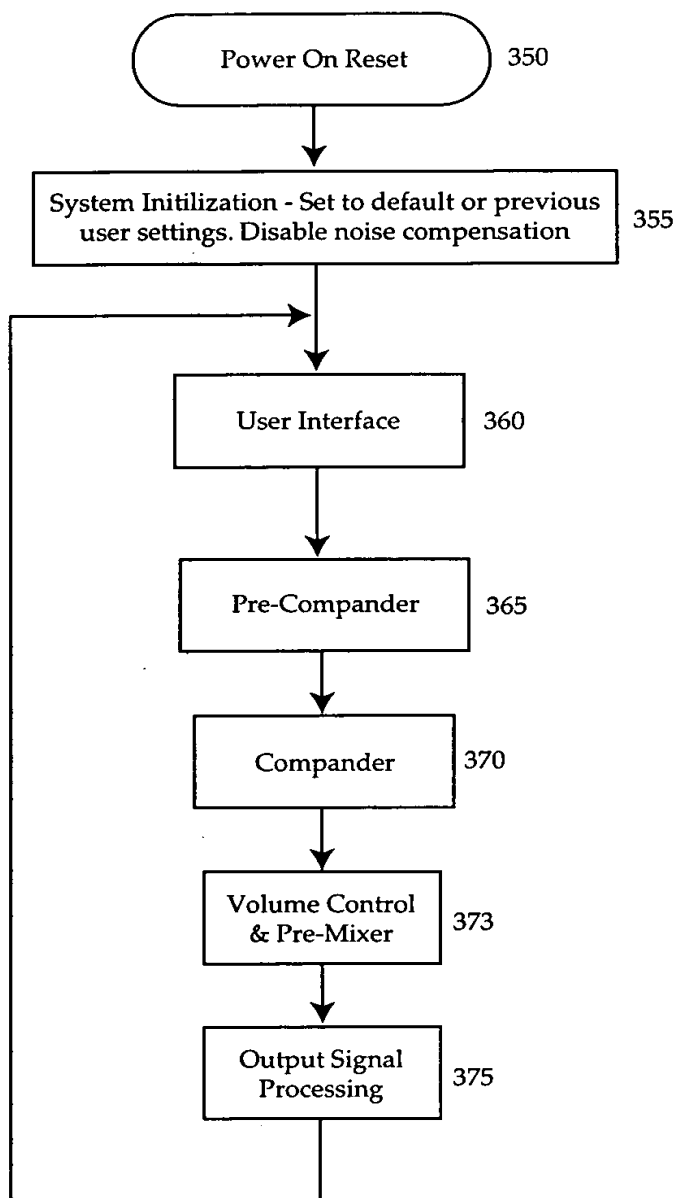


FIG. 3B

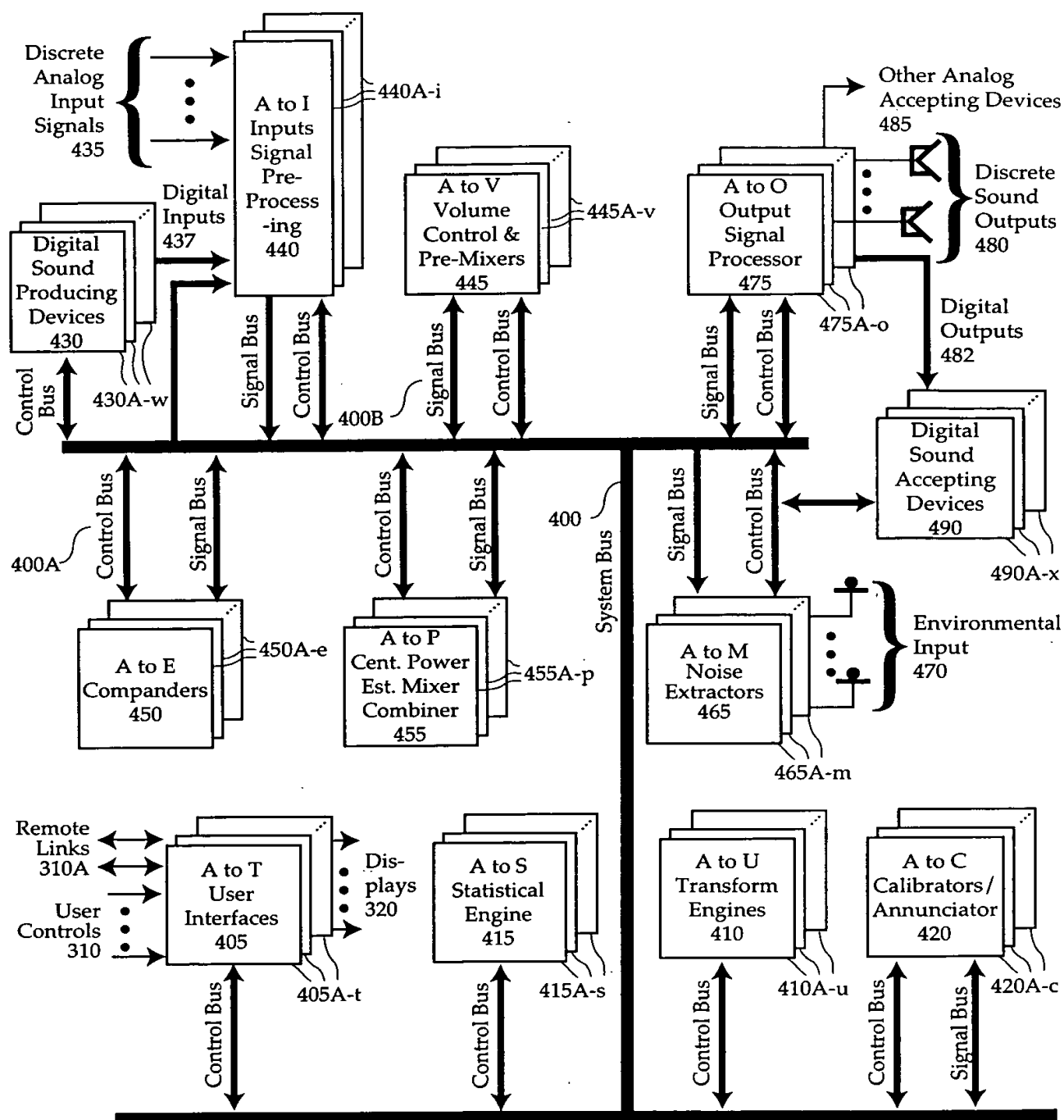


FIG. 4

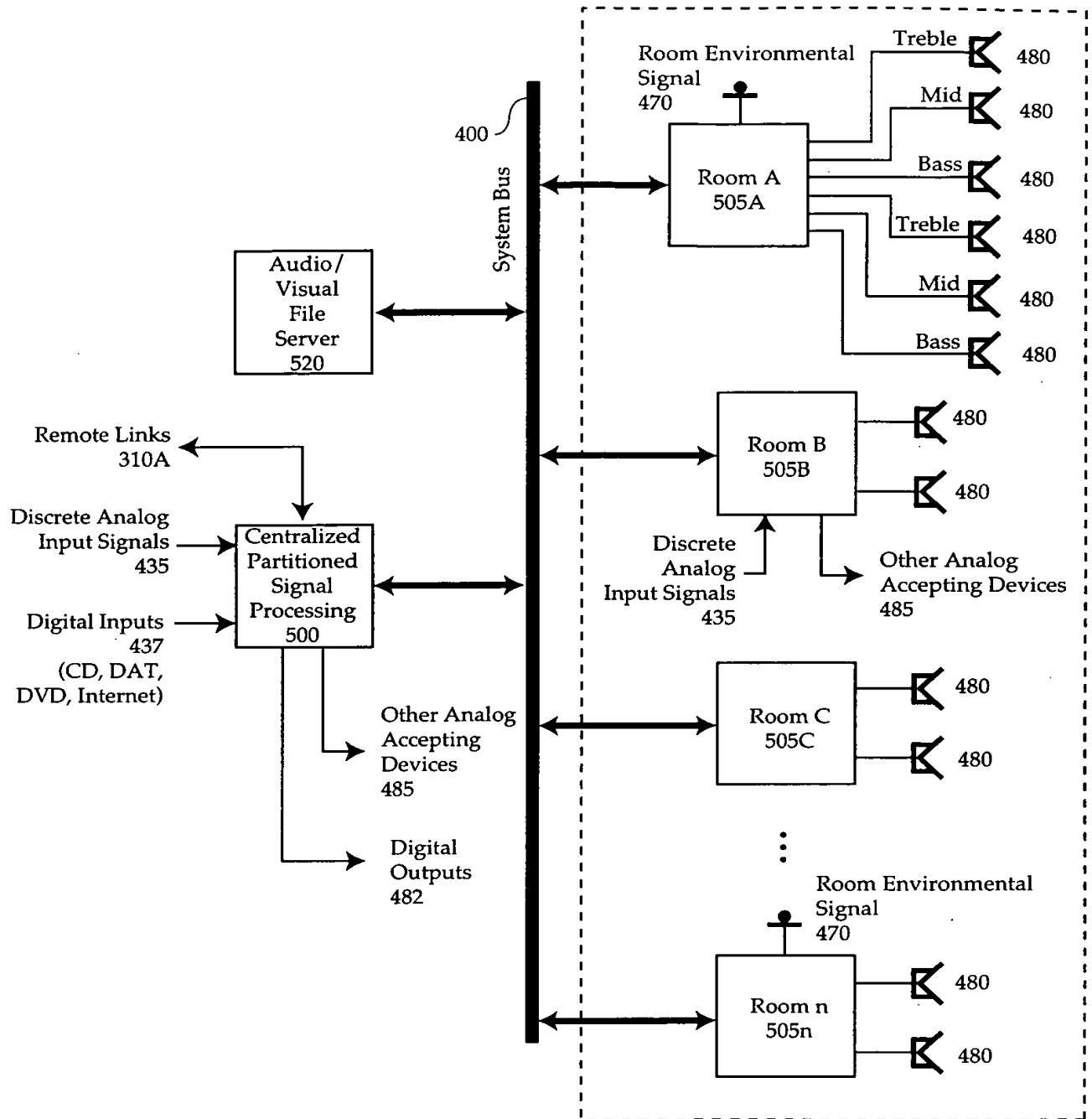


FIG. 5A

505

00627 6922260

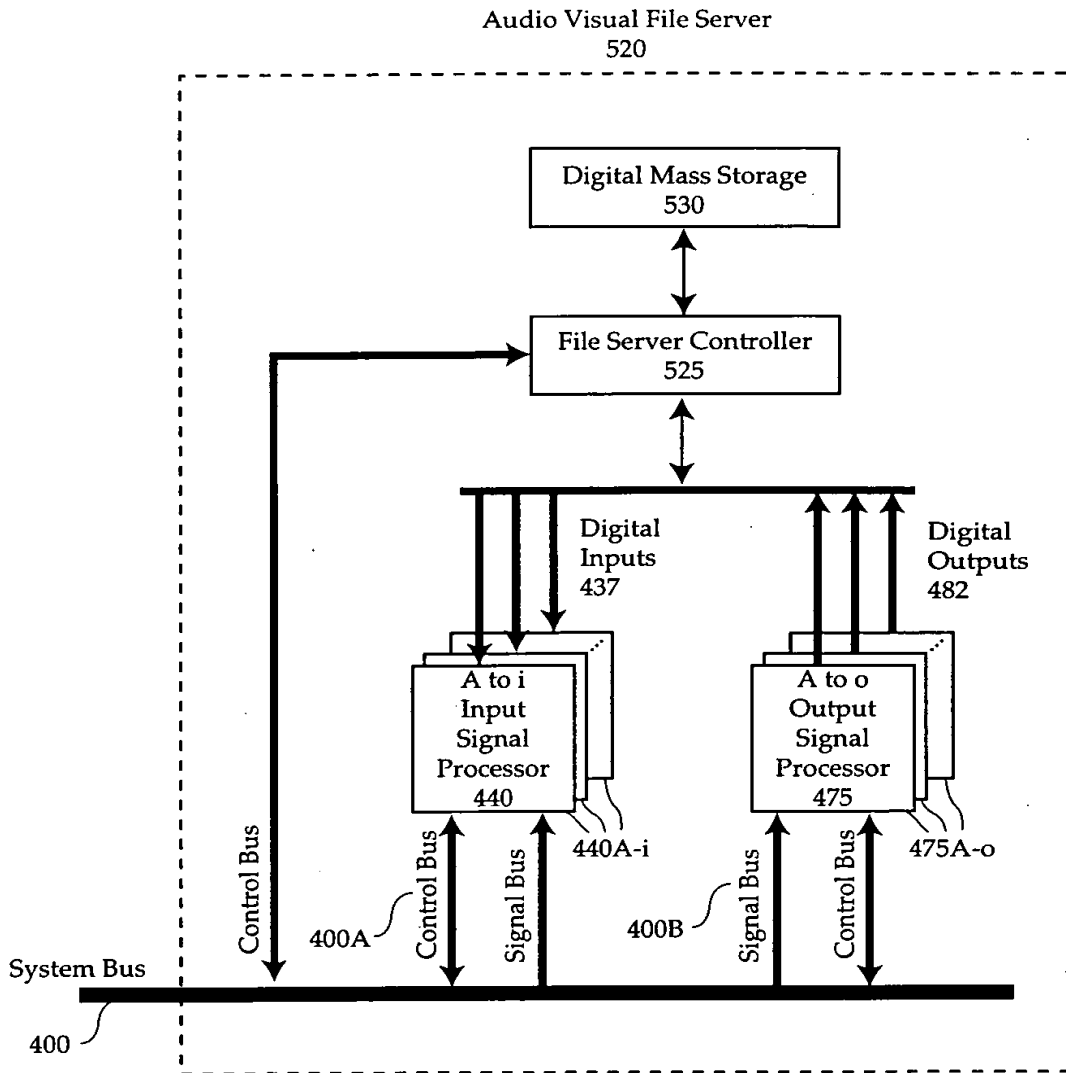


FIG. 5B

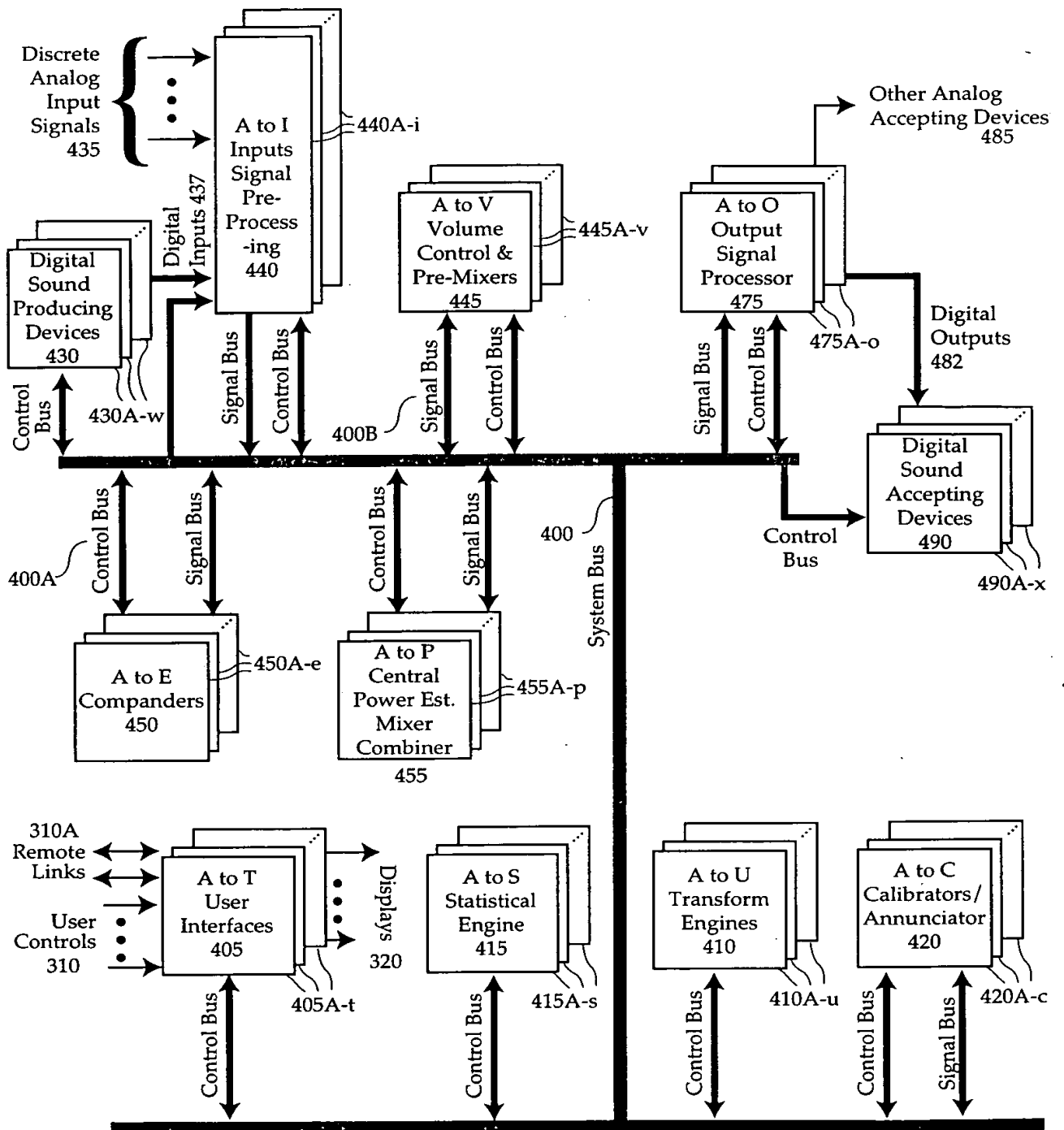


FIG. 5C

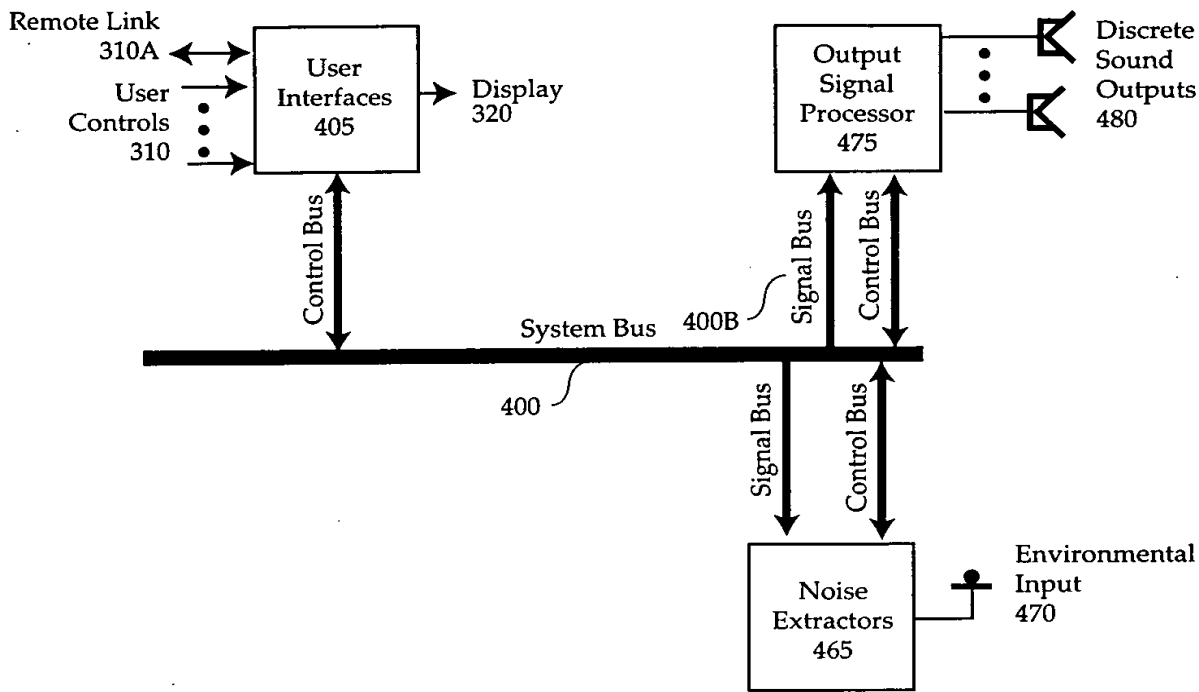


FIG. 5D

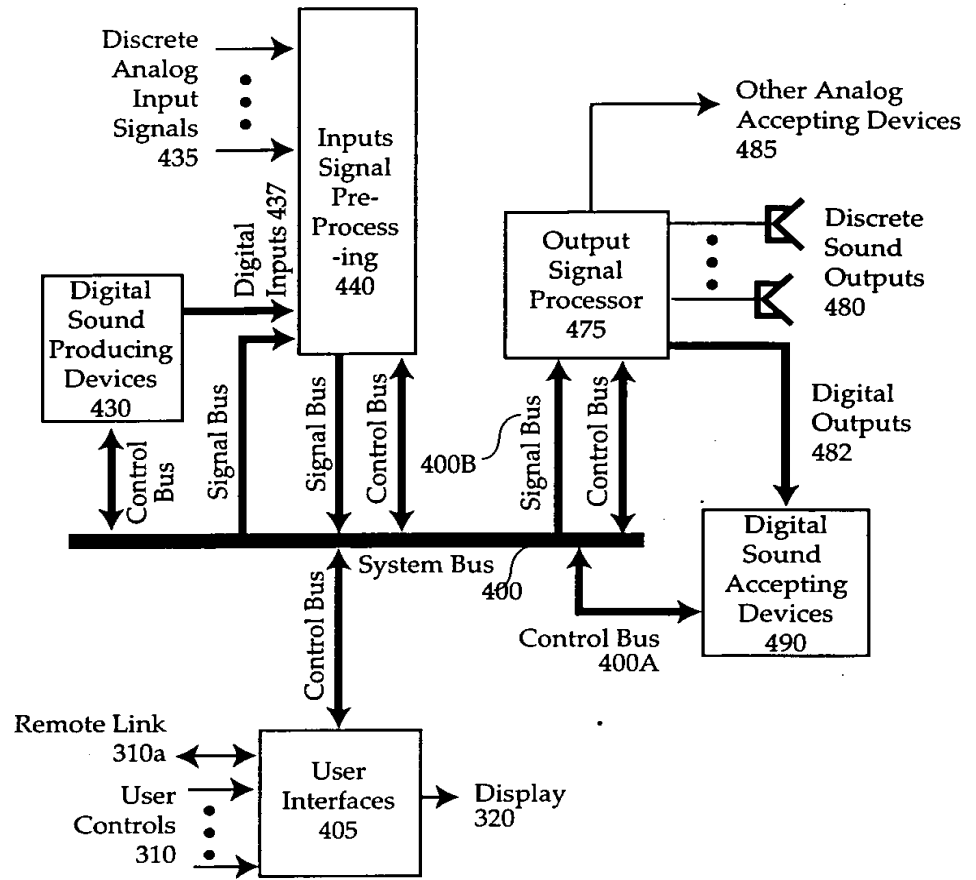


FIG. 5E

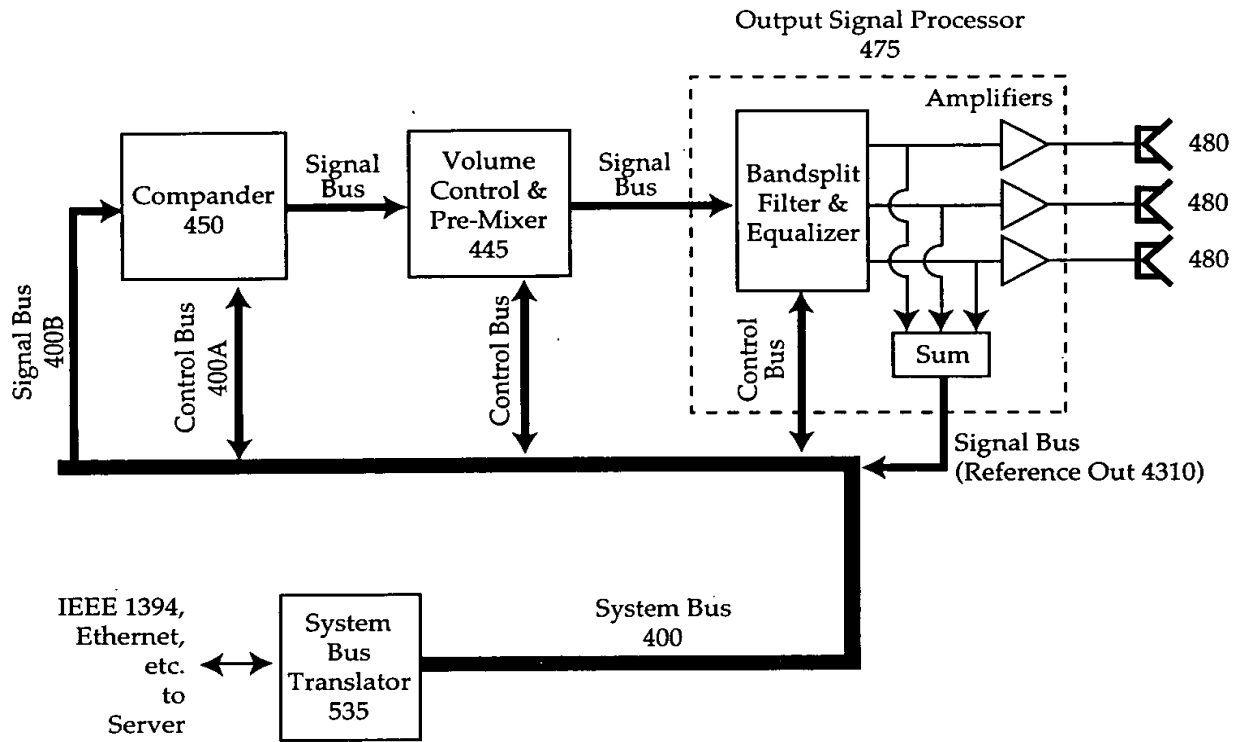


FIG. 5F

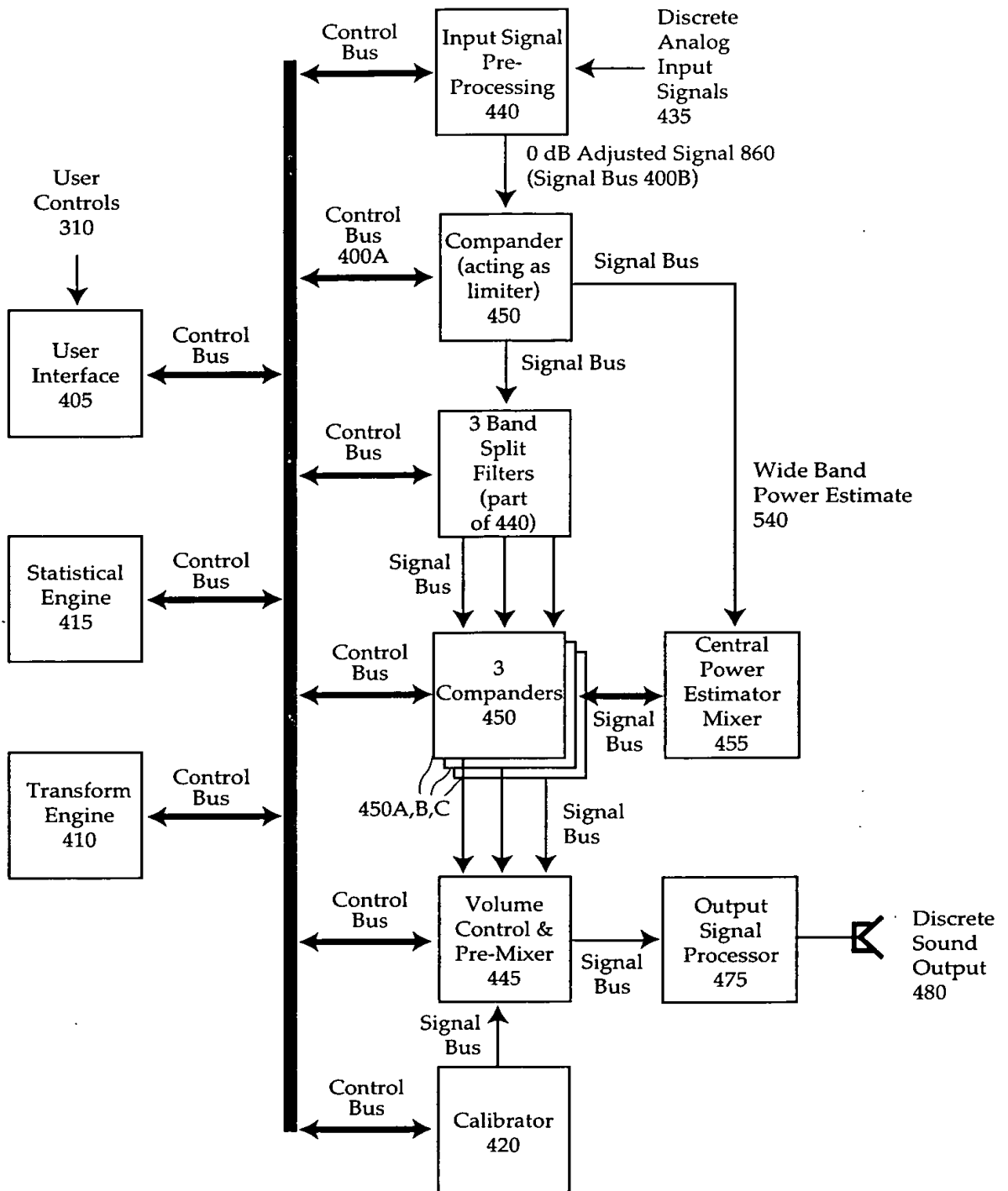


FIG. 5G

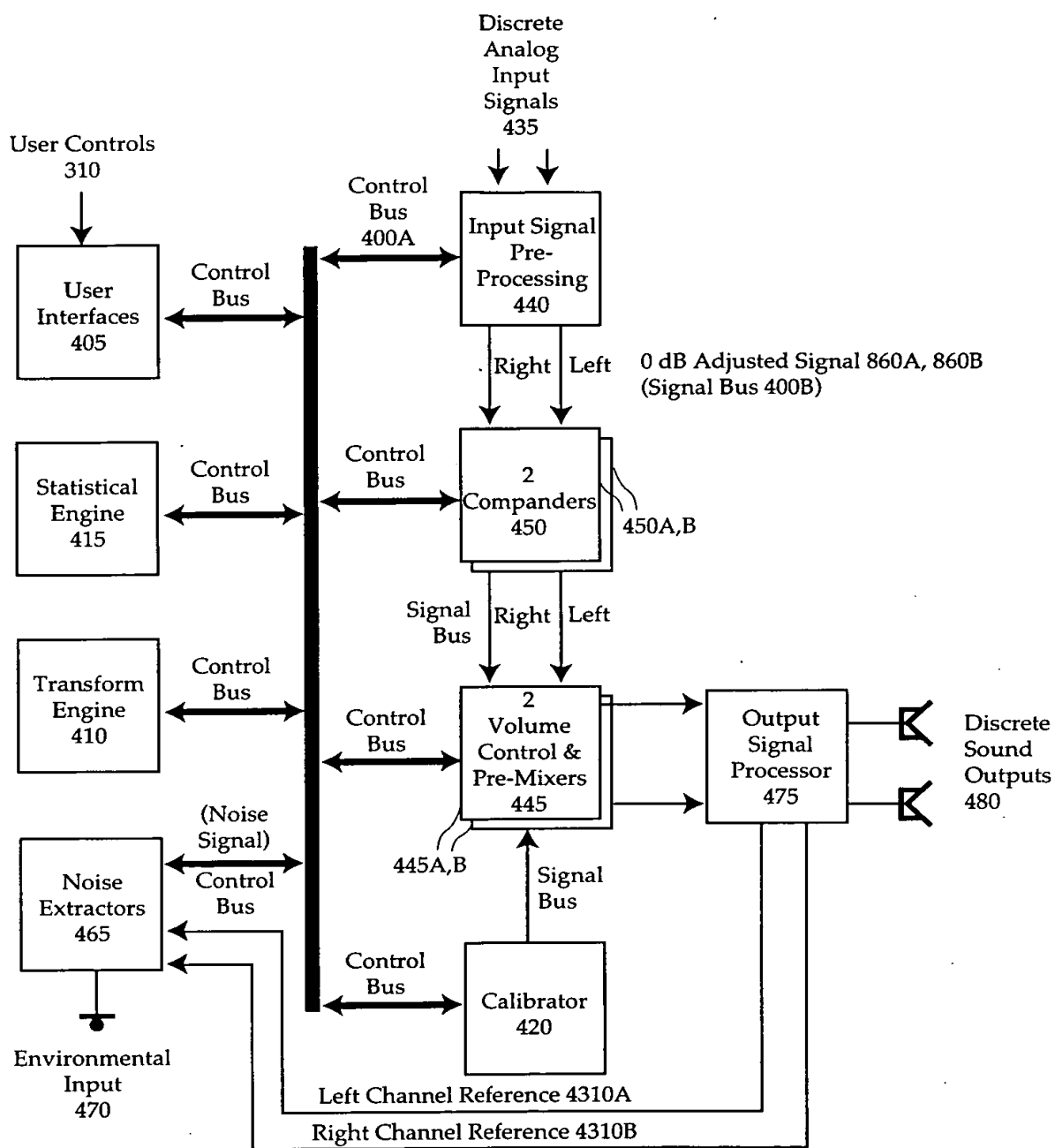


FIG. 5H

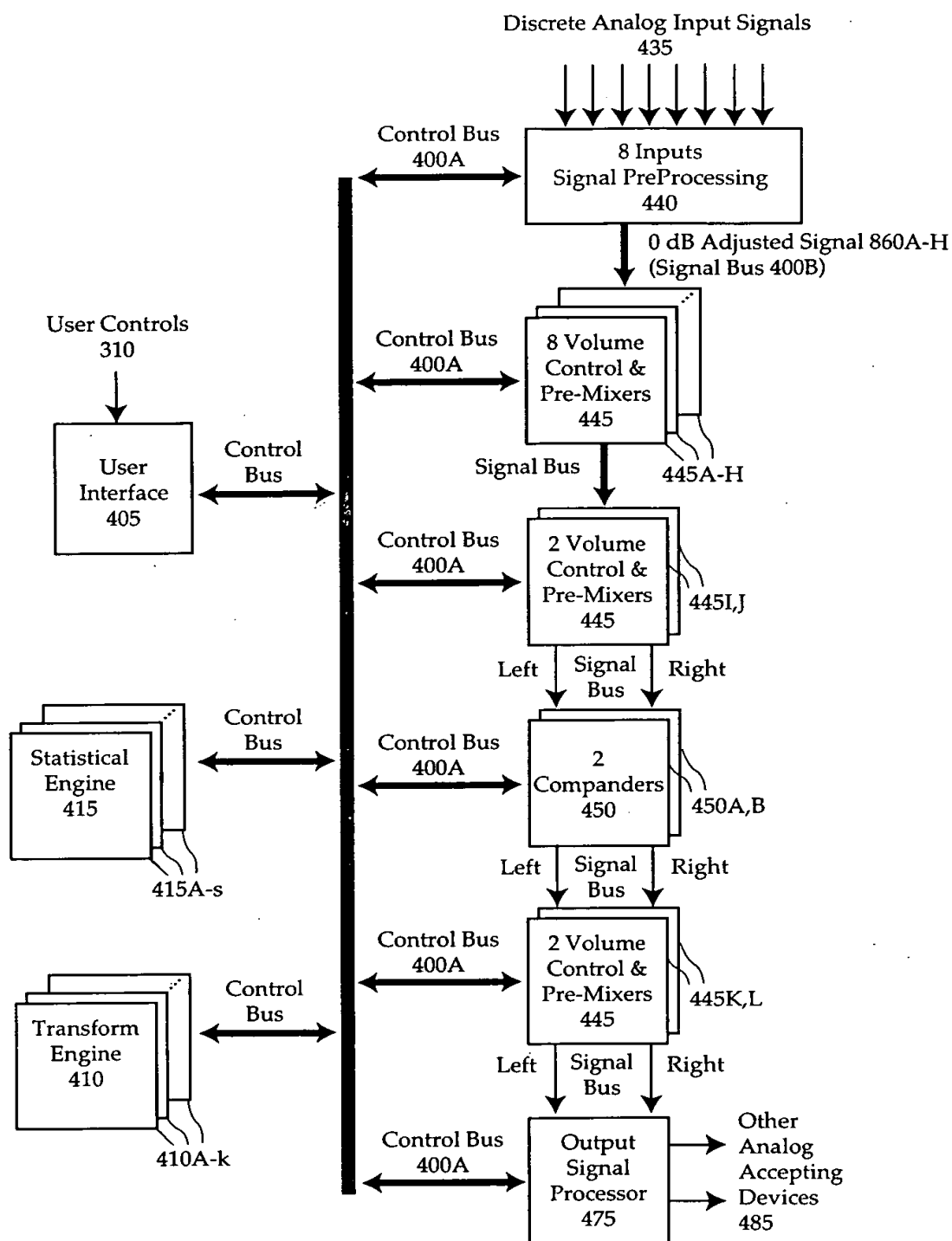


FIG. 5I

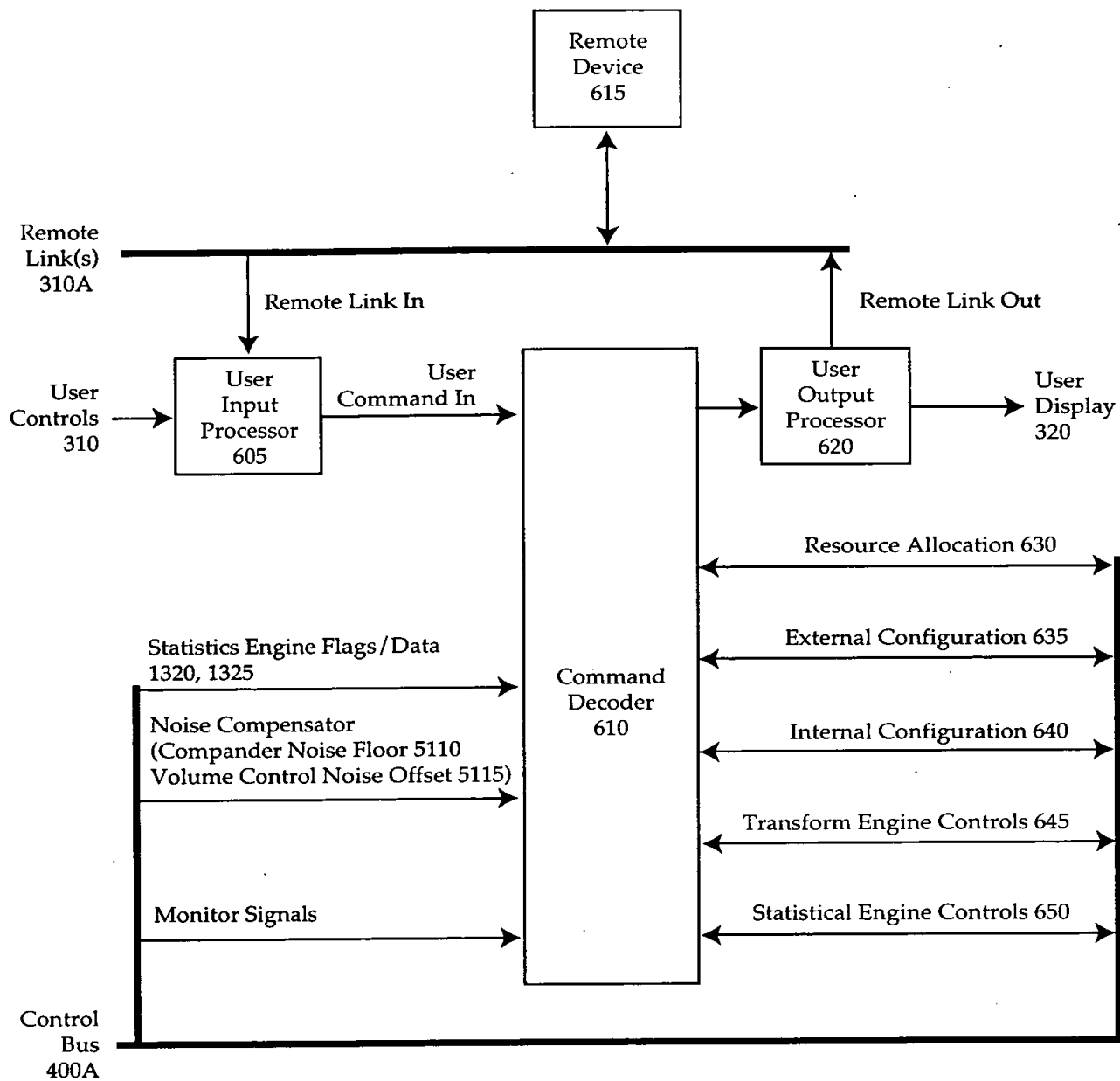


FIG. 6A

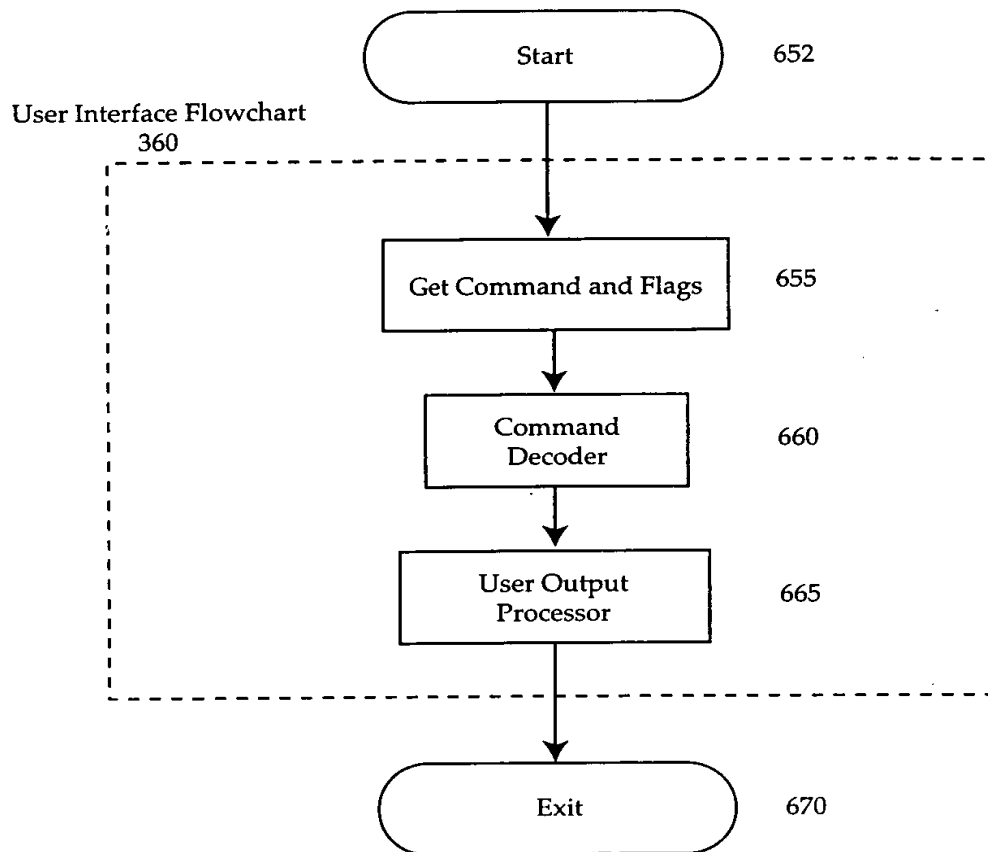


FIG. 6B

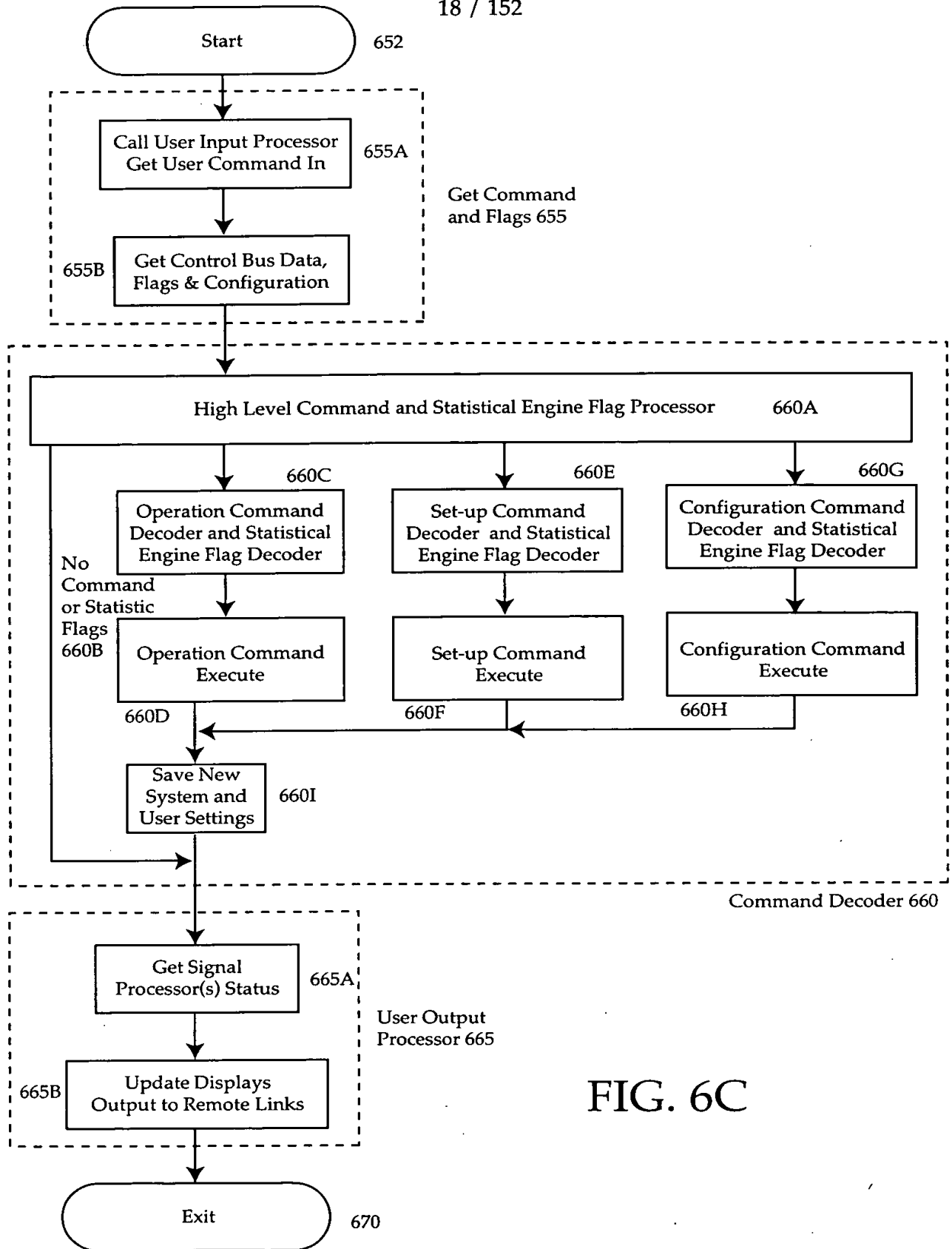


FIG. 6C

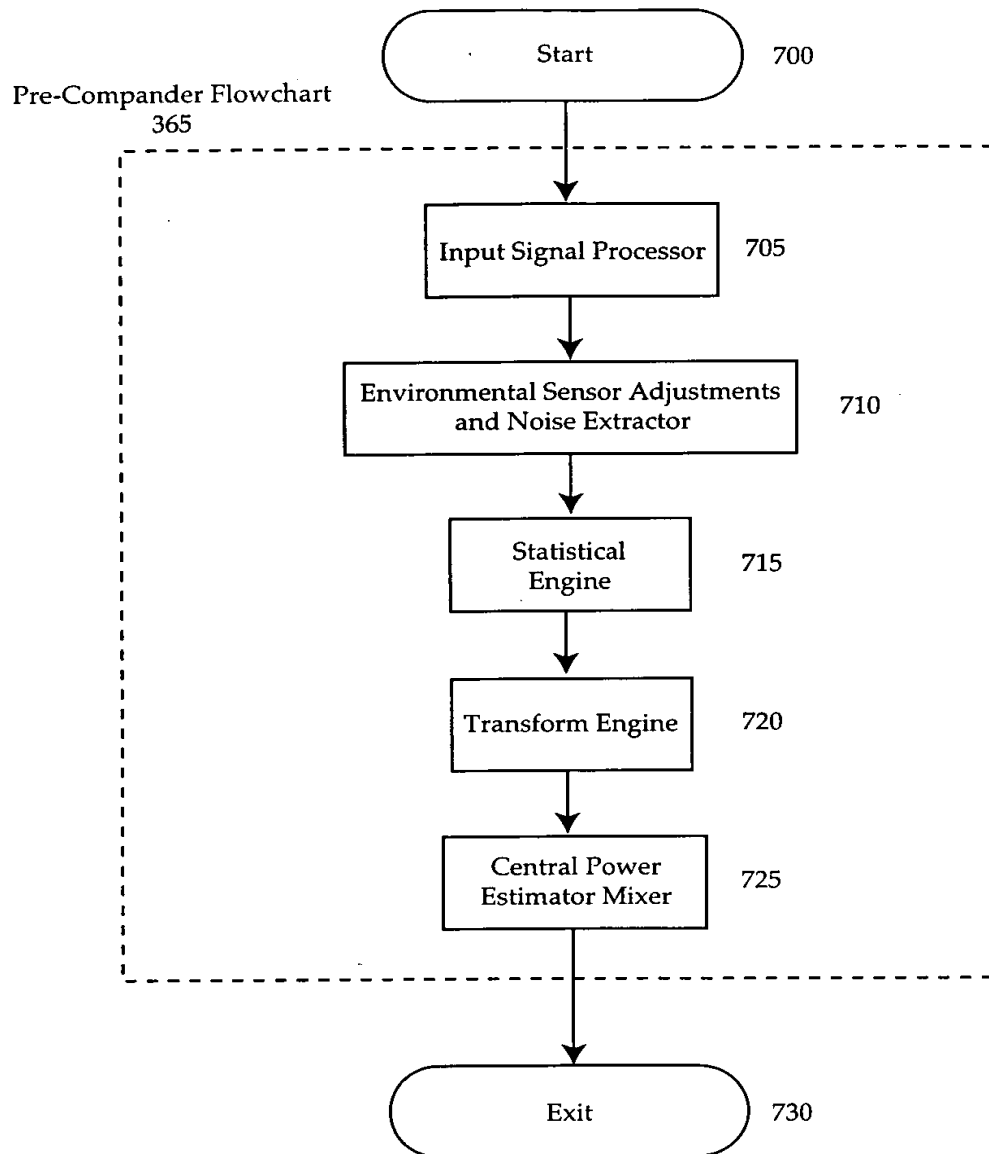


FIG. 7

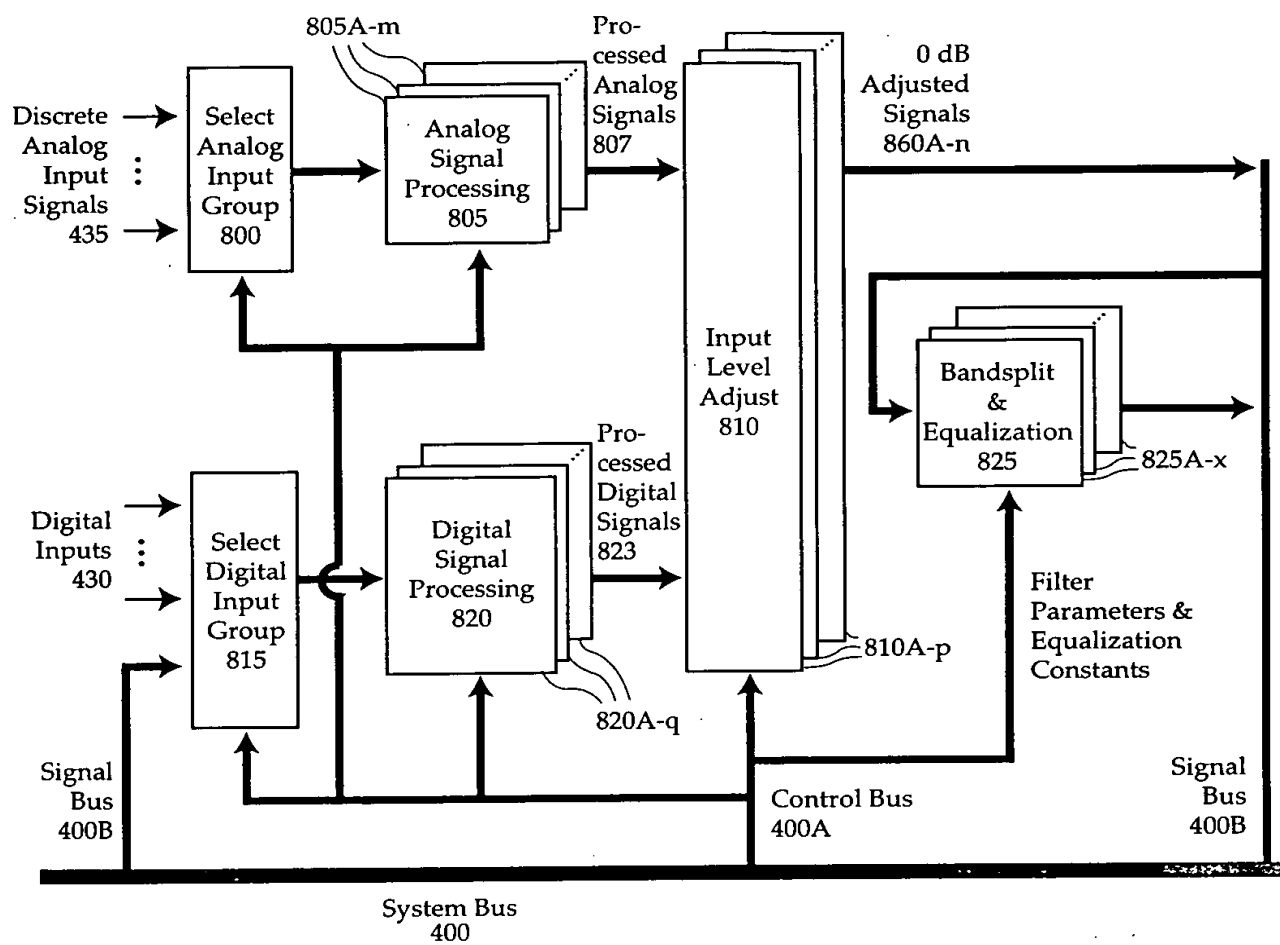


FIG. 8A

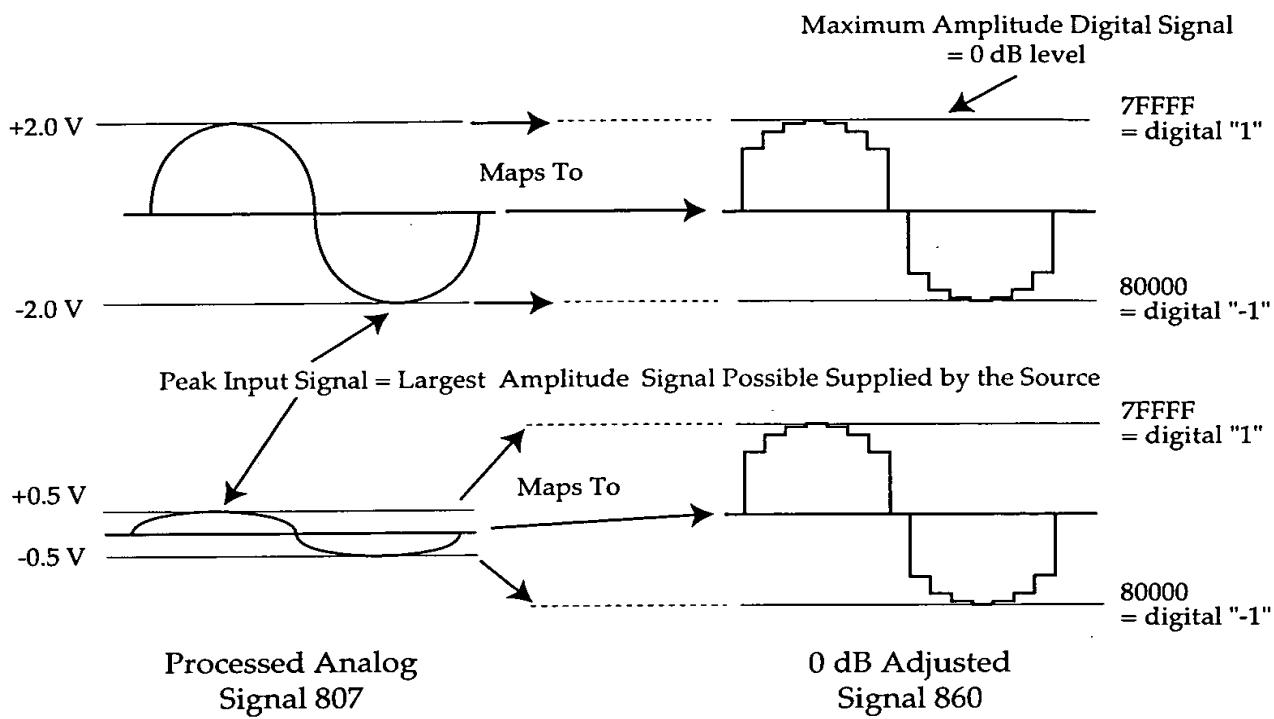


FIG. 8B

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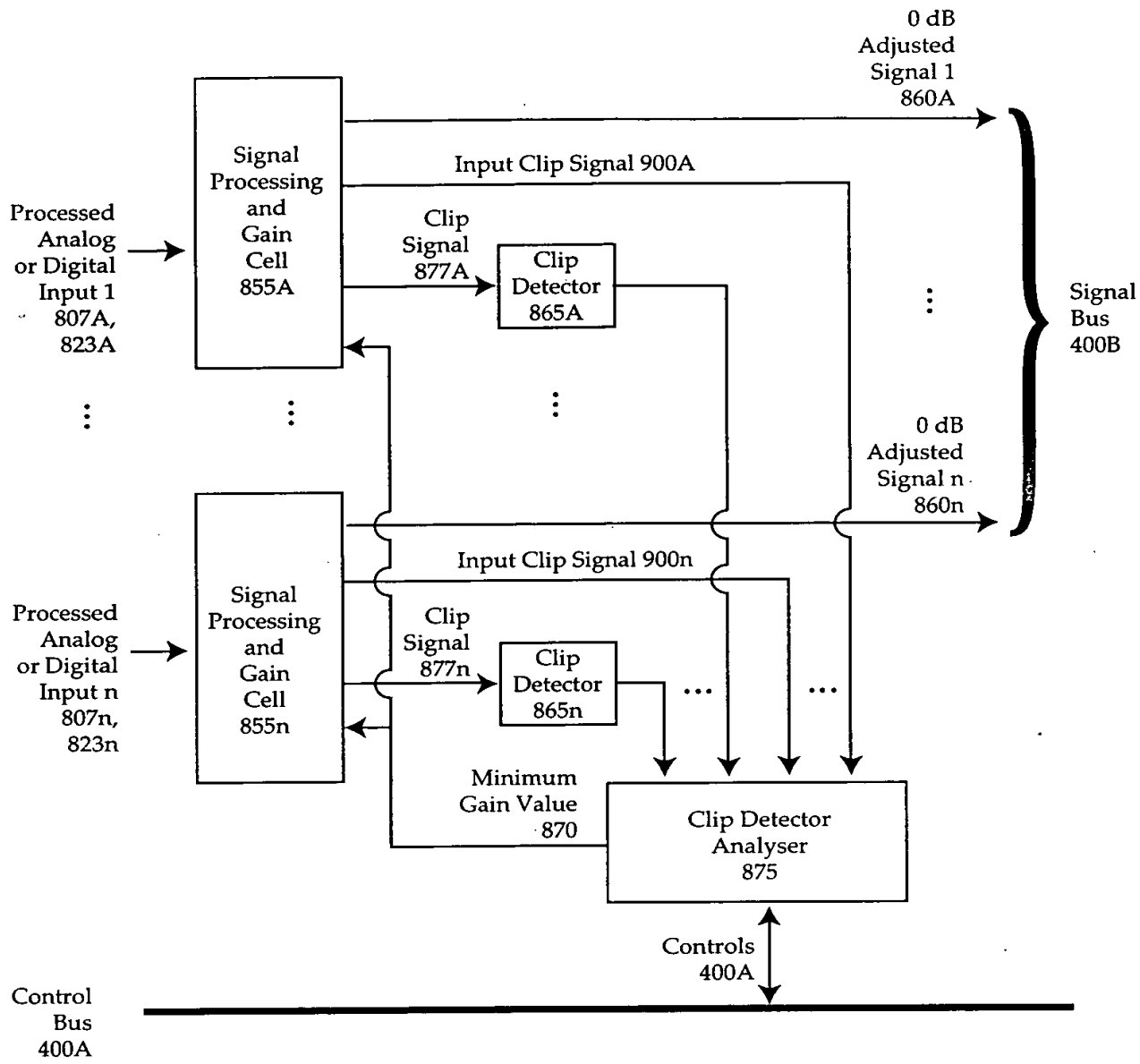


FIG. 8C

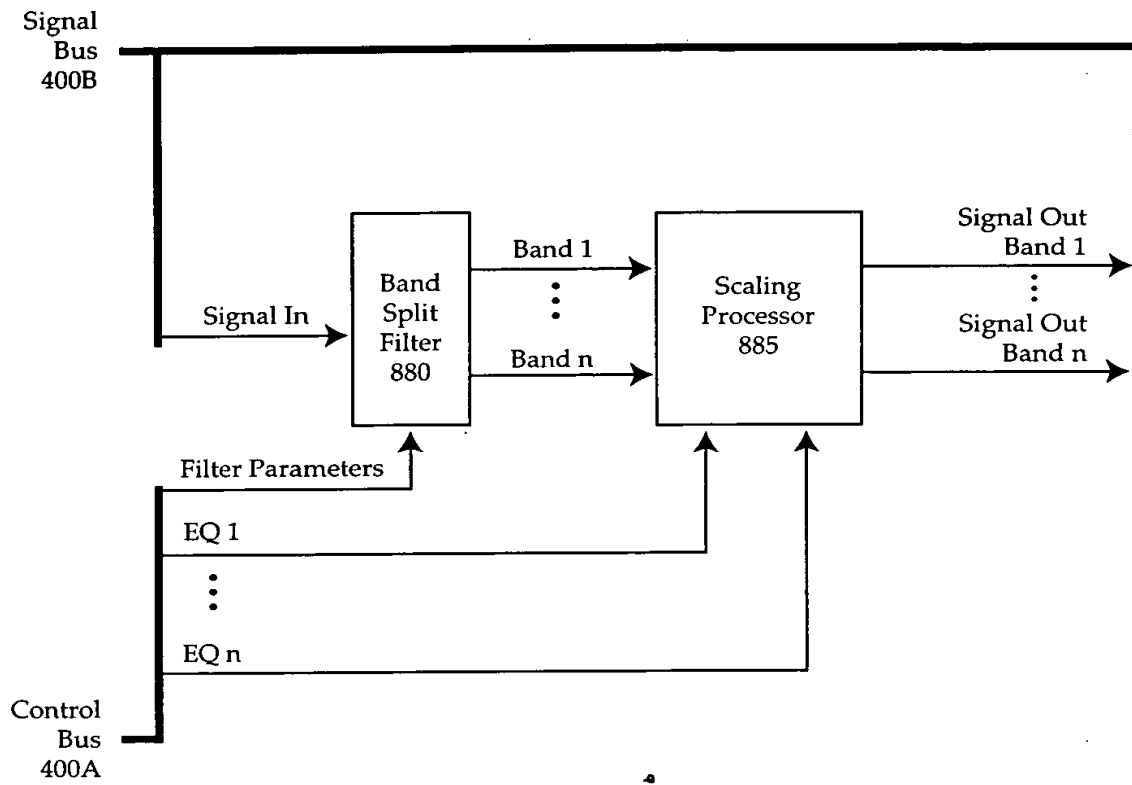


FIG. 8D

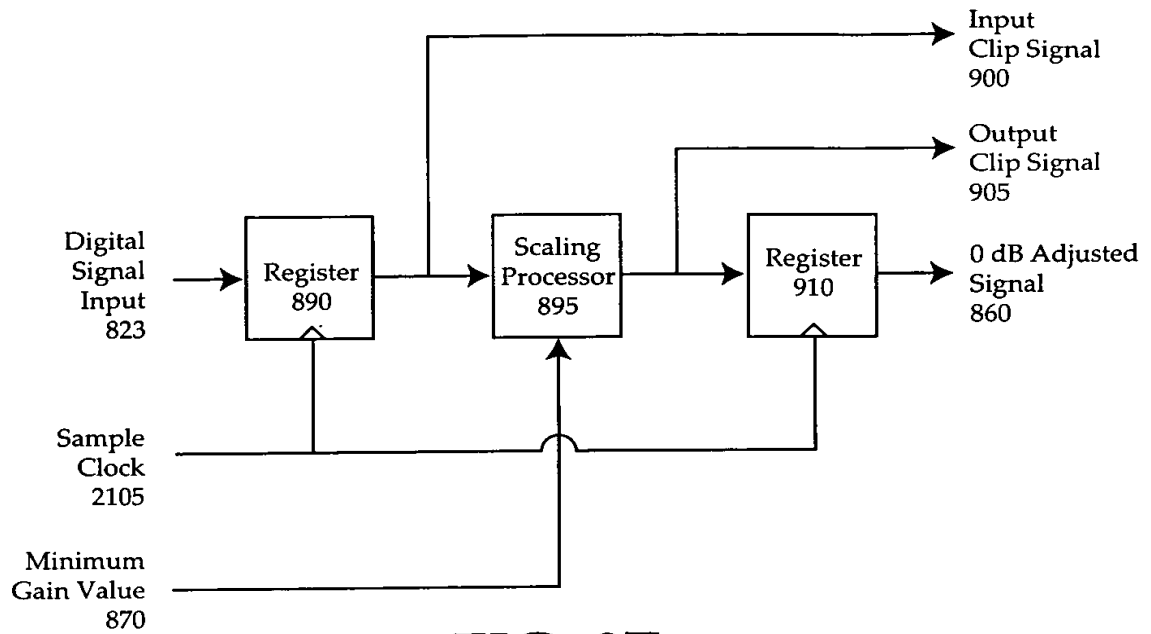


FIG. 8E

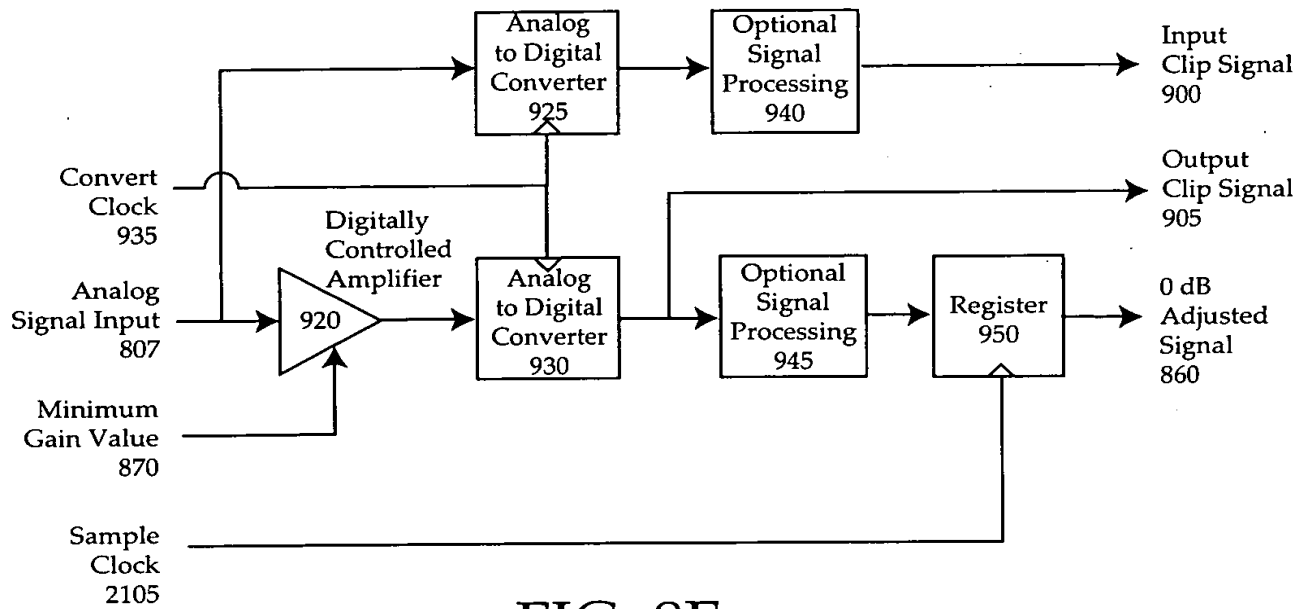


FIG. 8F

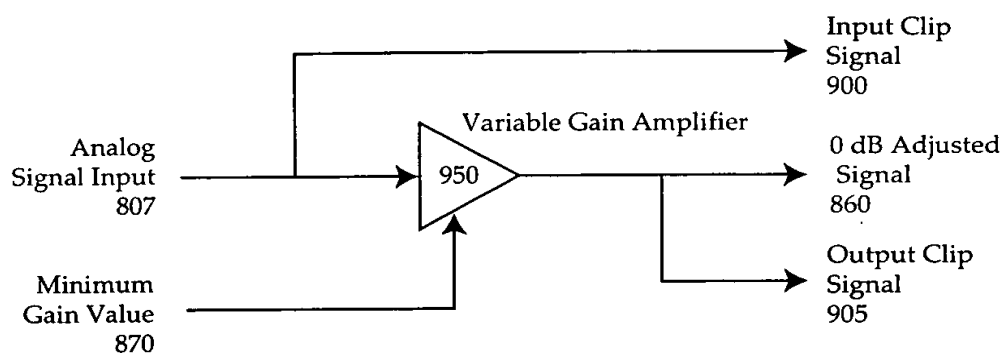


FIG. 8G

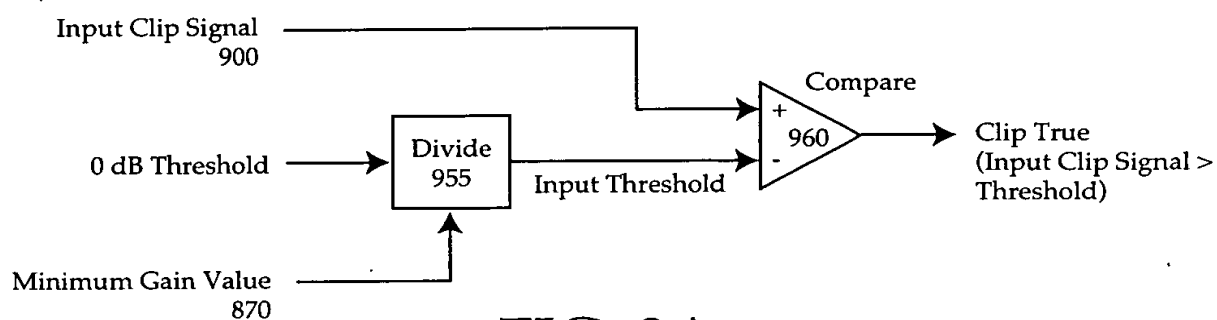


FIG. 9A

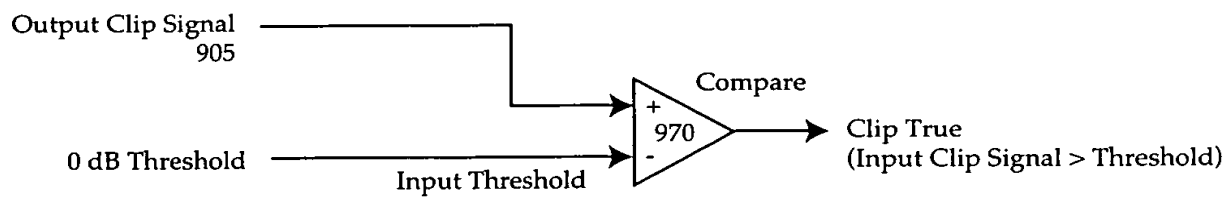


FIG. 9B

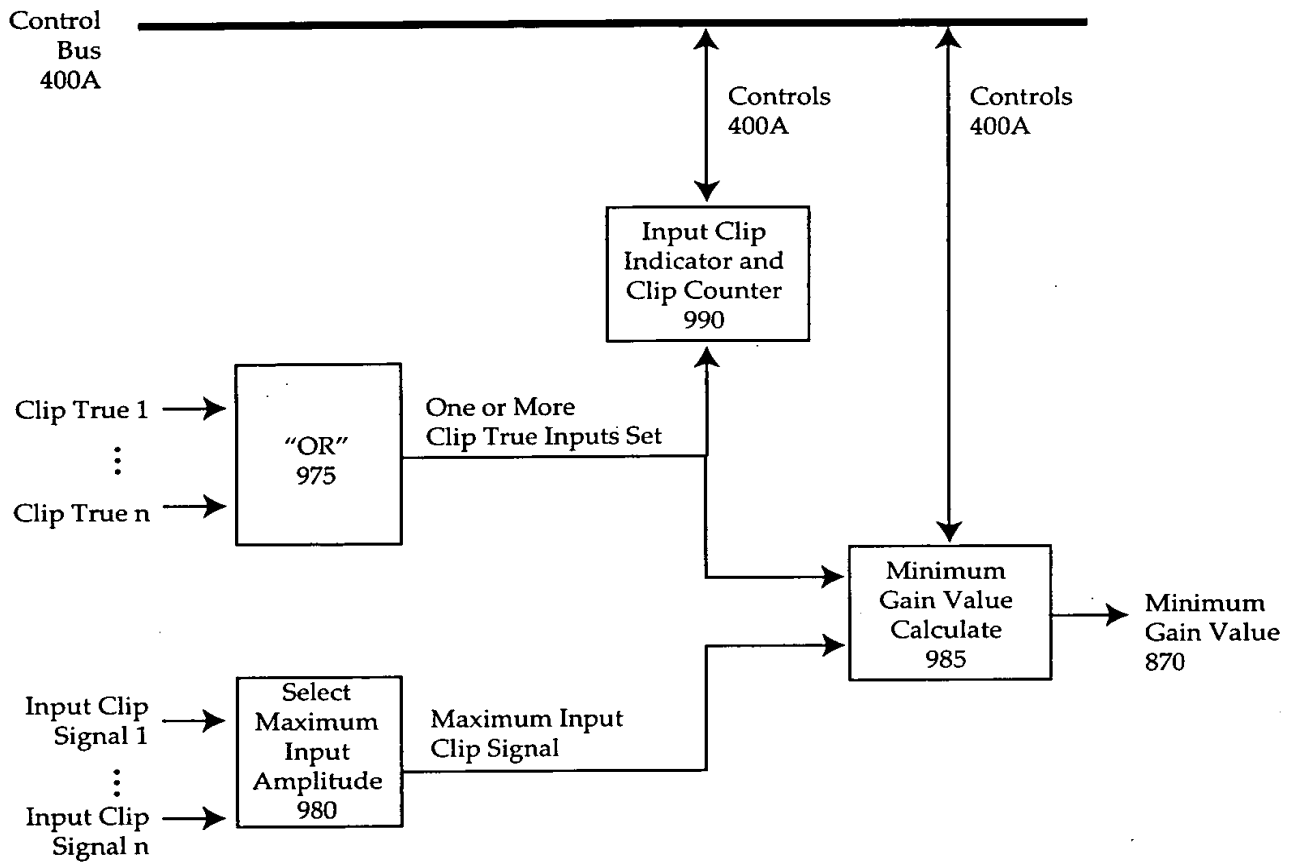


FIG. 9C

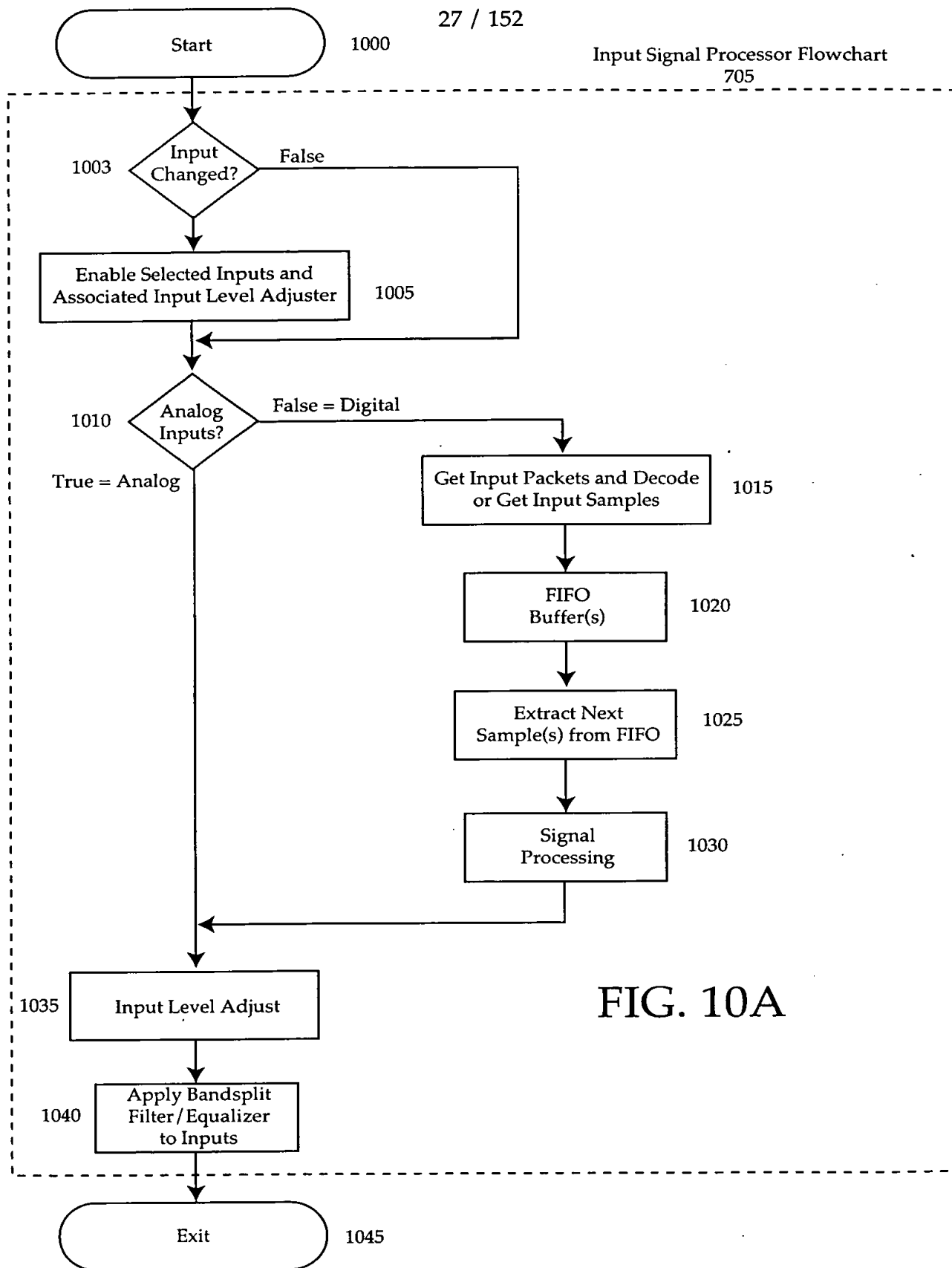
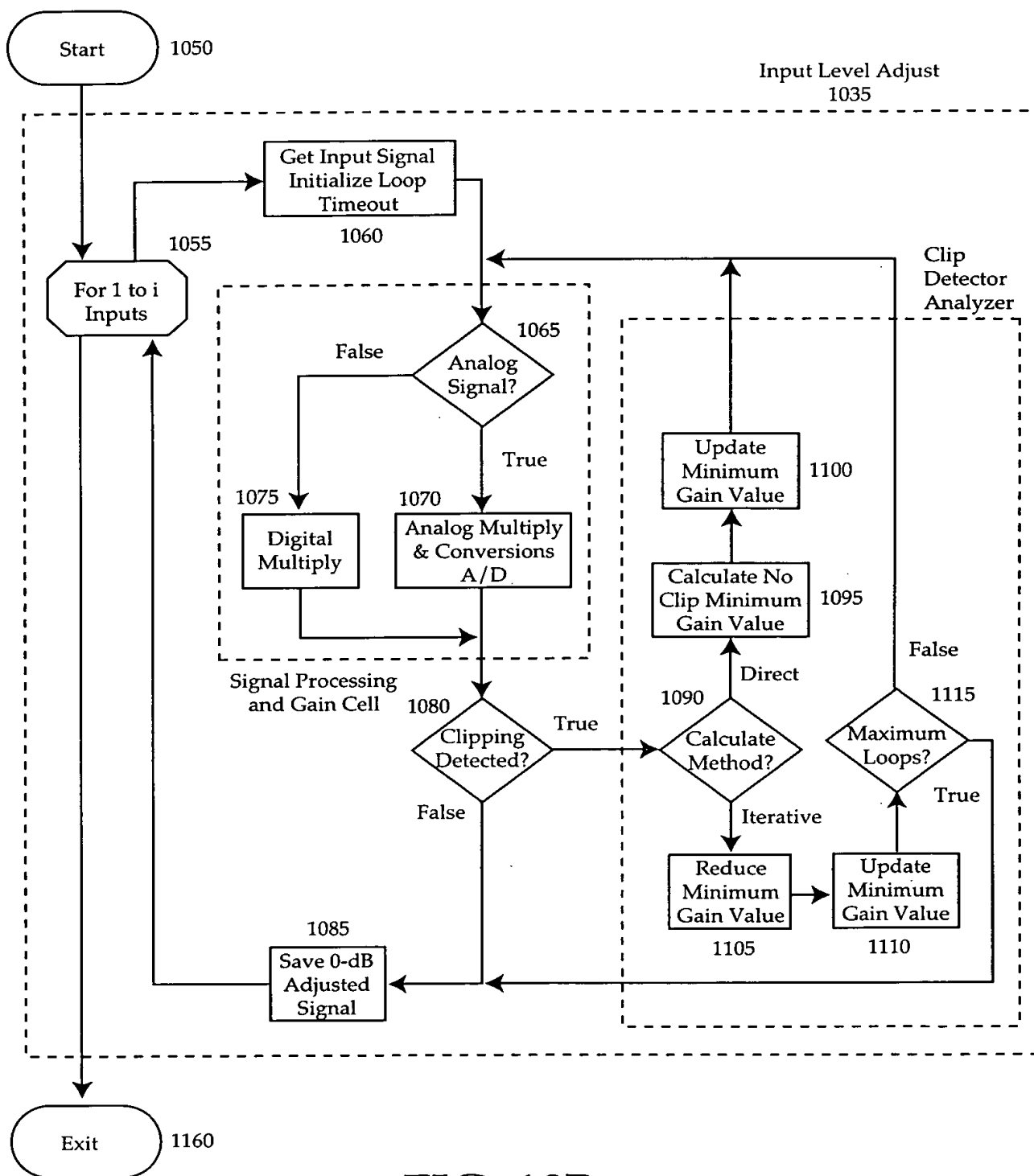
Input Signal Processor Flowchart
705

FIG. 10A

006277" 692/2260



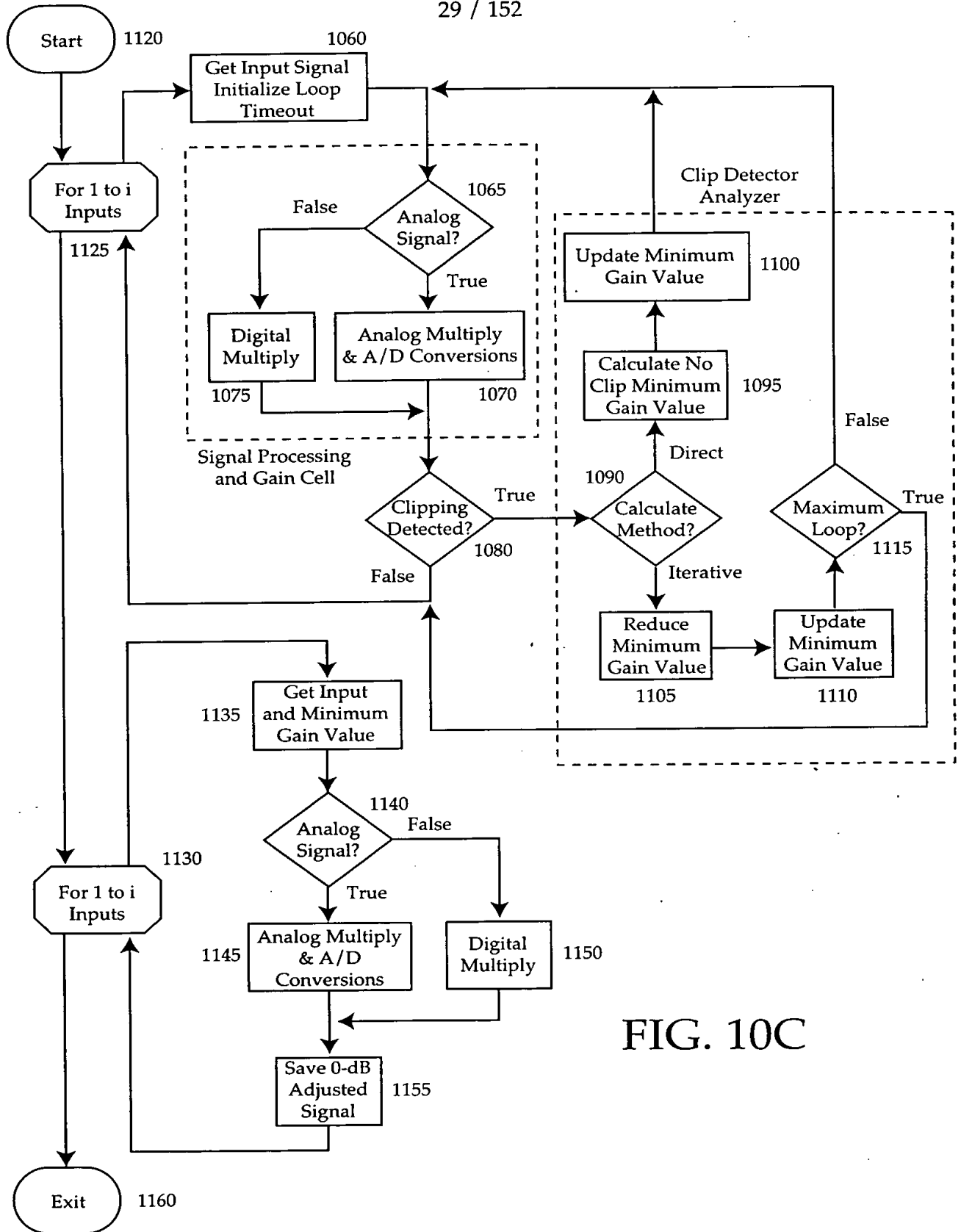


FIG. 10C

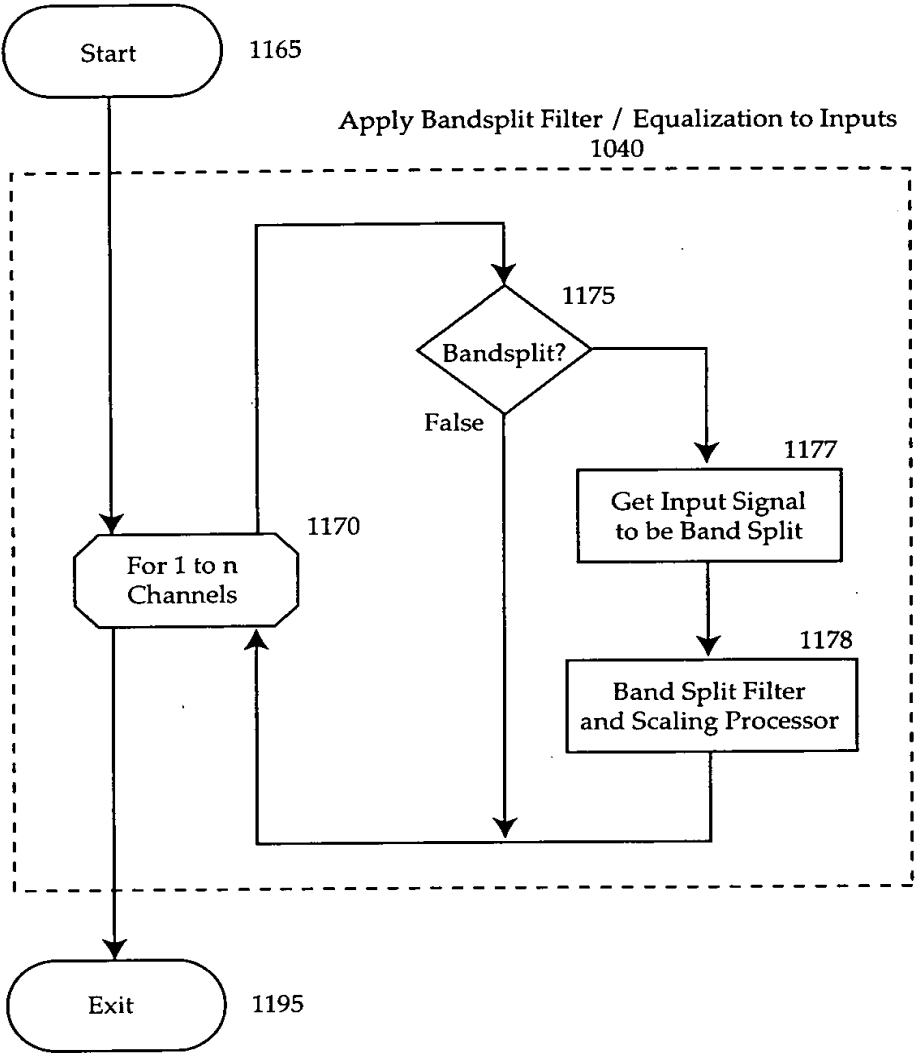


FIG. 10D

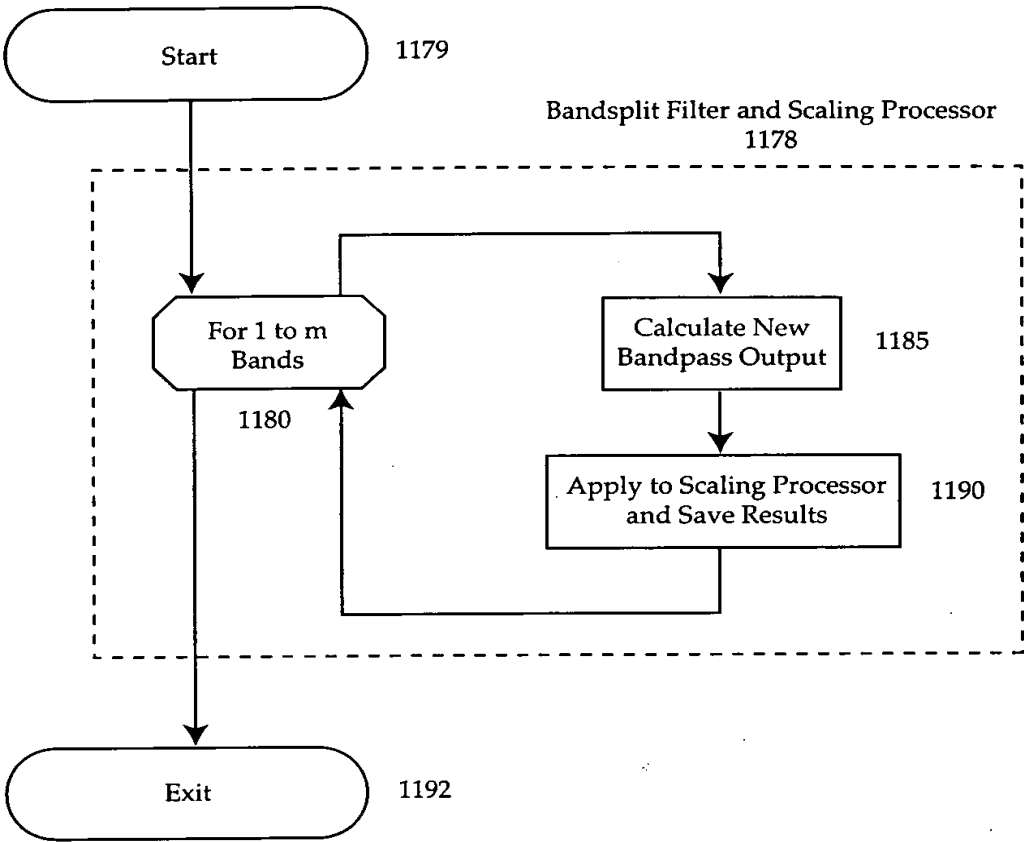


FIG. 10E

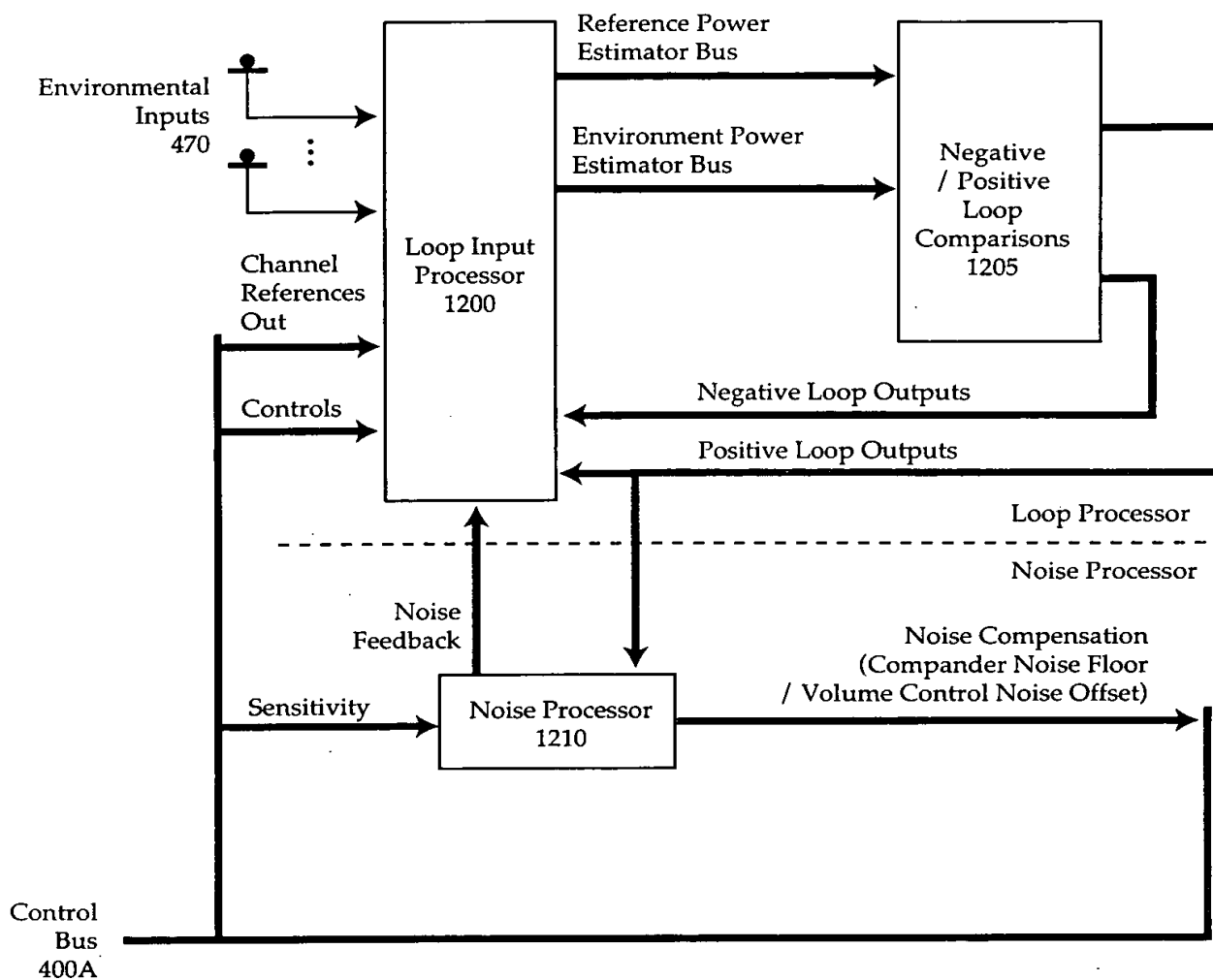


FIG. 11

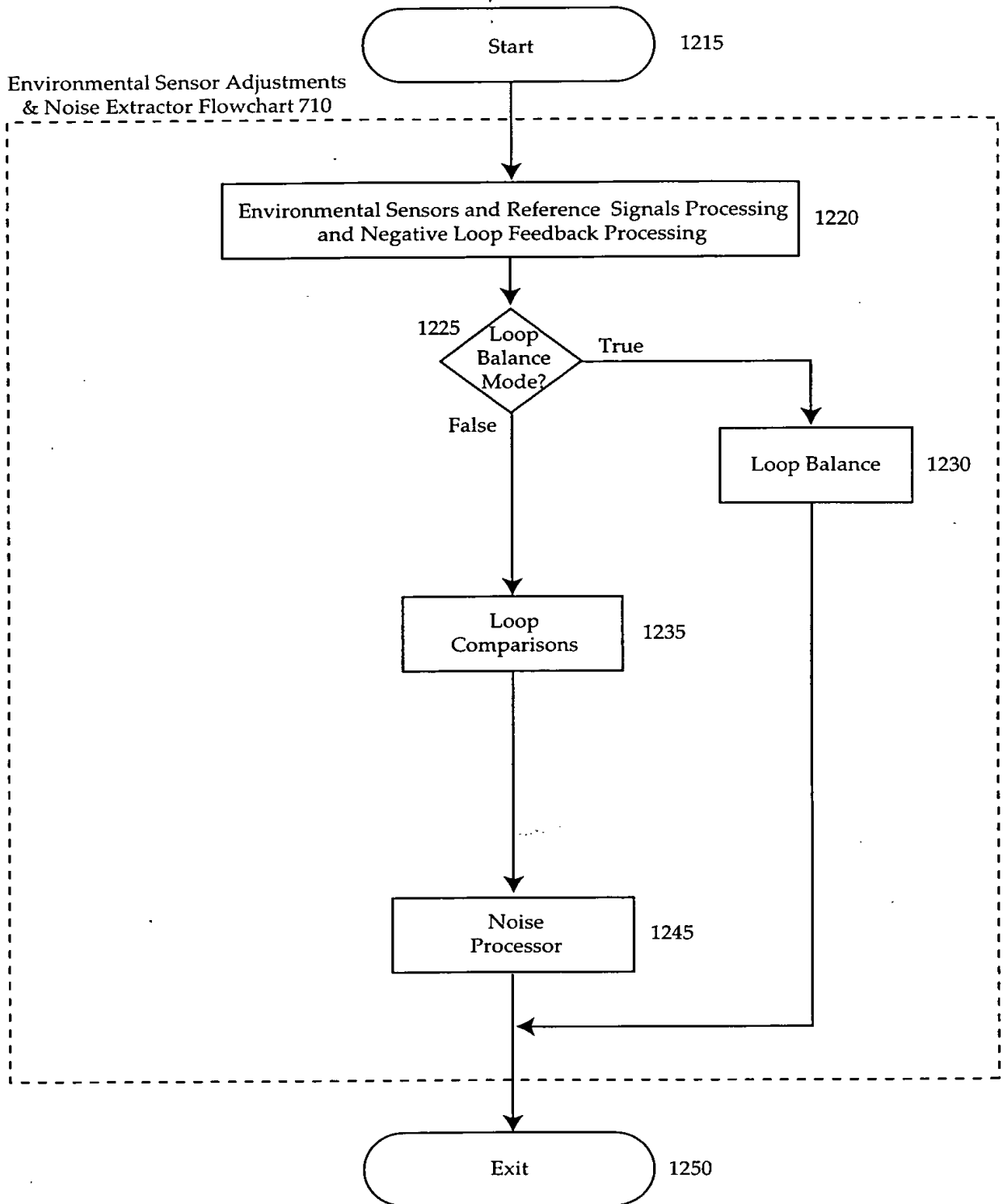
Environmental Sensor Adjustments
& Noise Extractor Flowchart 710

FIG. 12

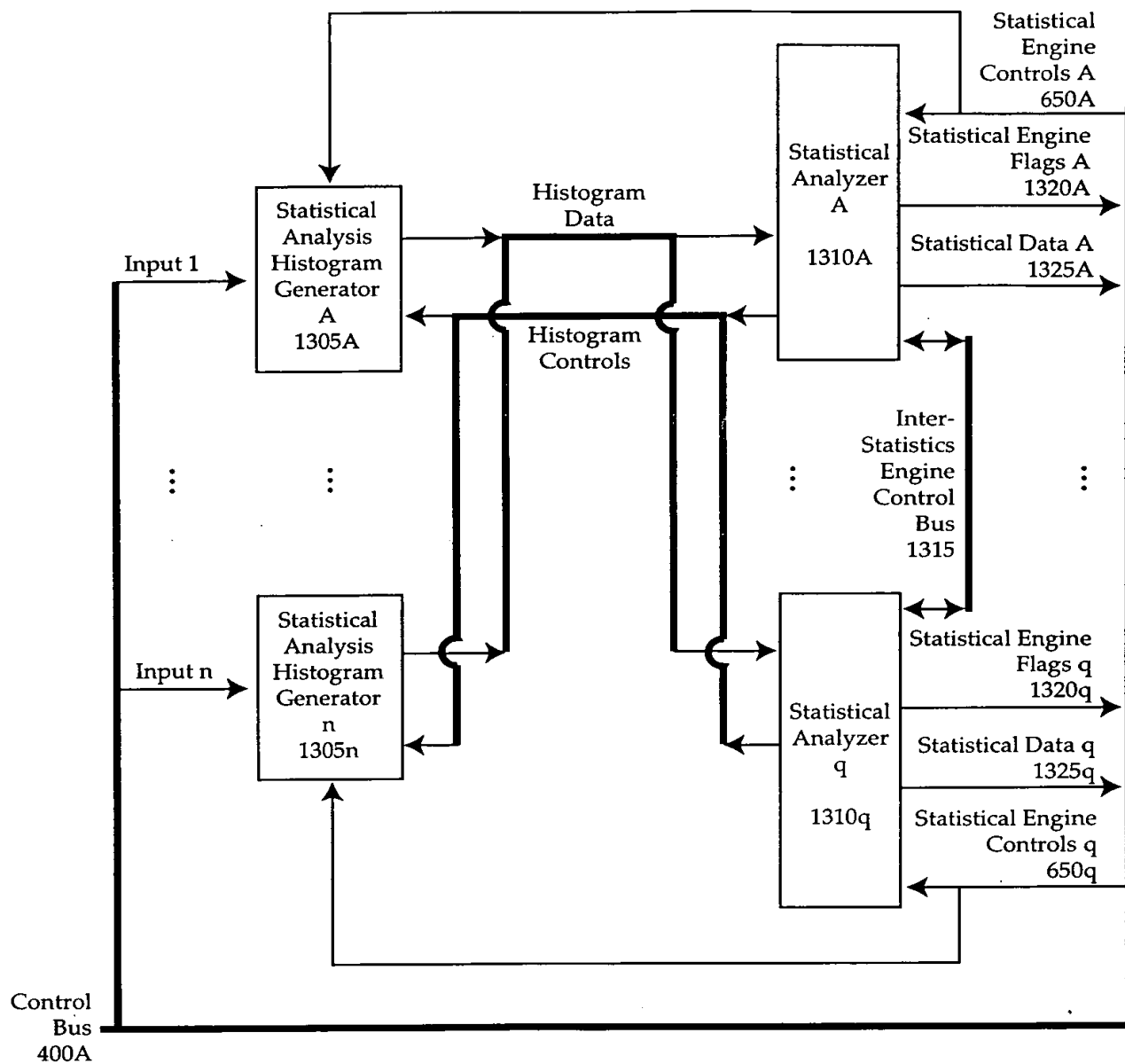


FIG. 13

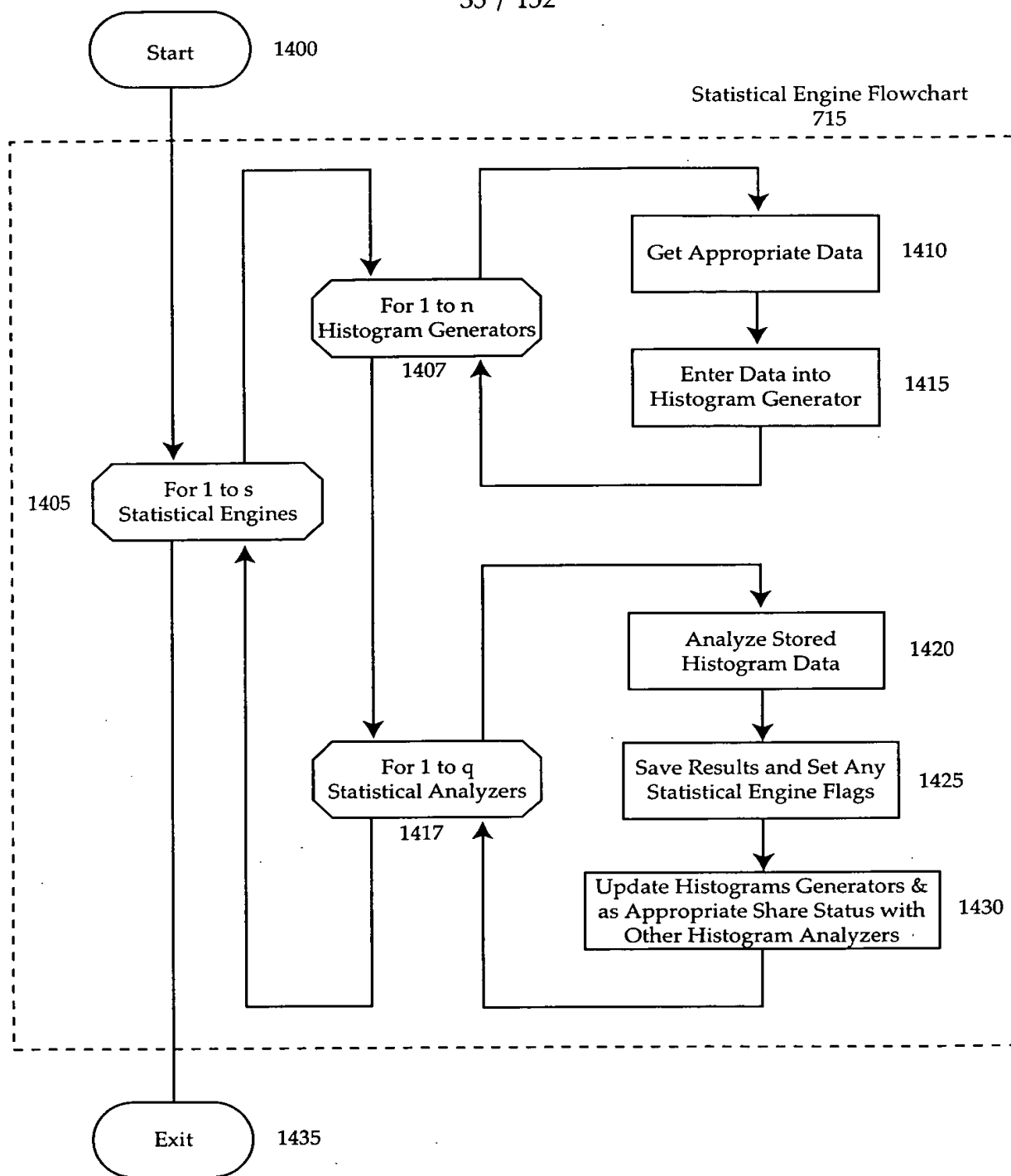


FIG. 14

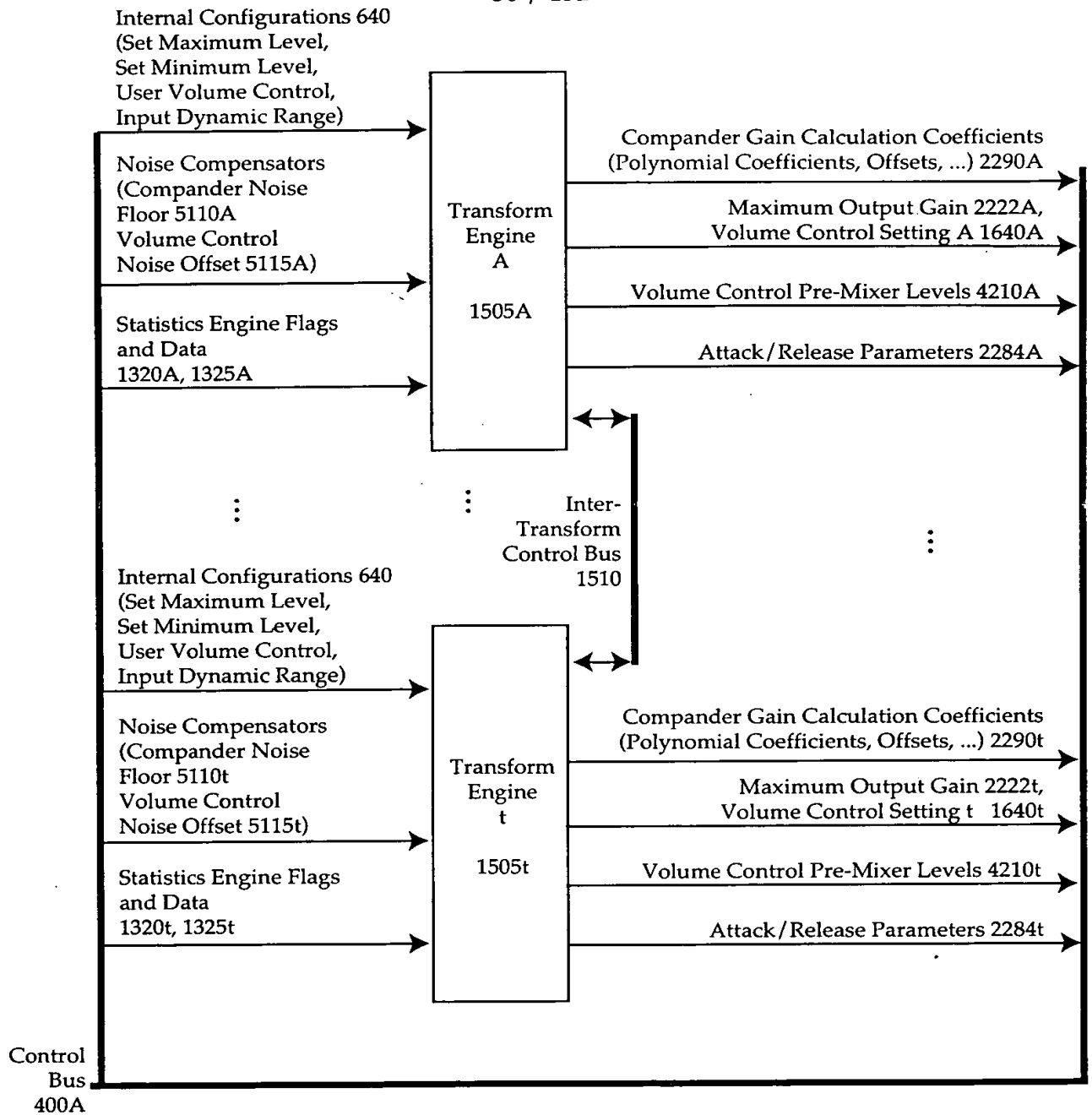


FIG. 15

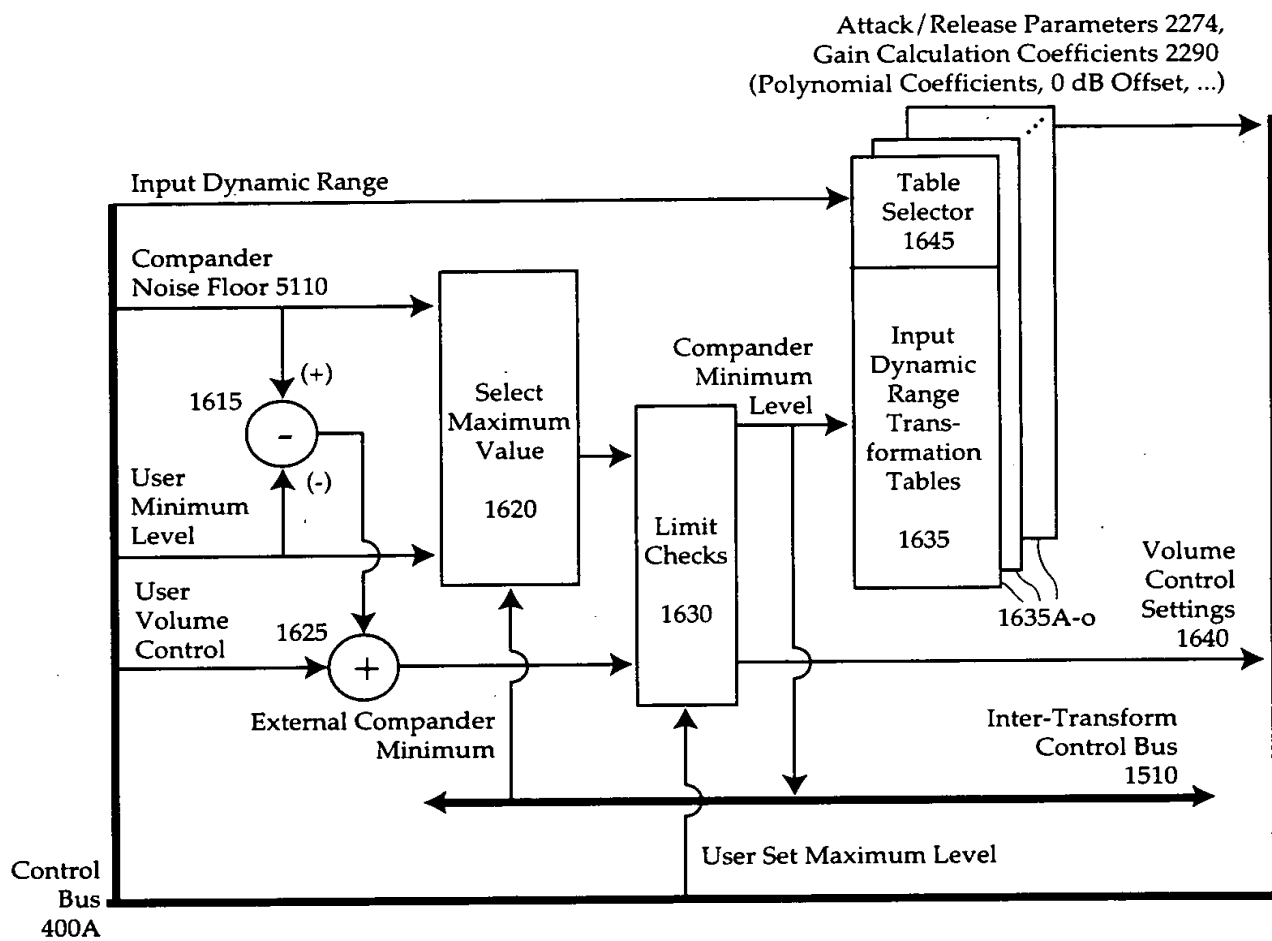


FIG. 16

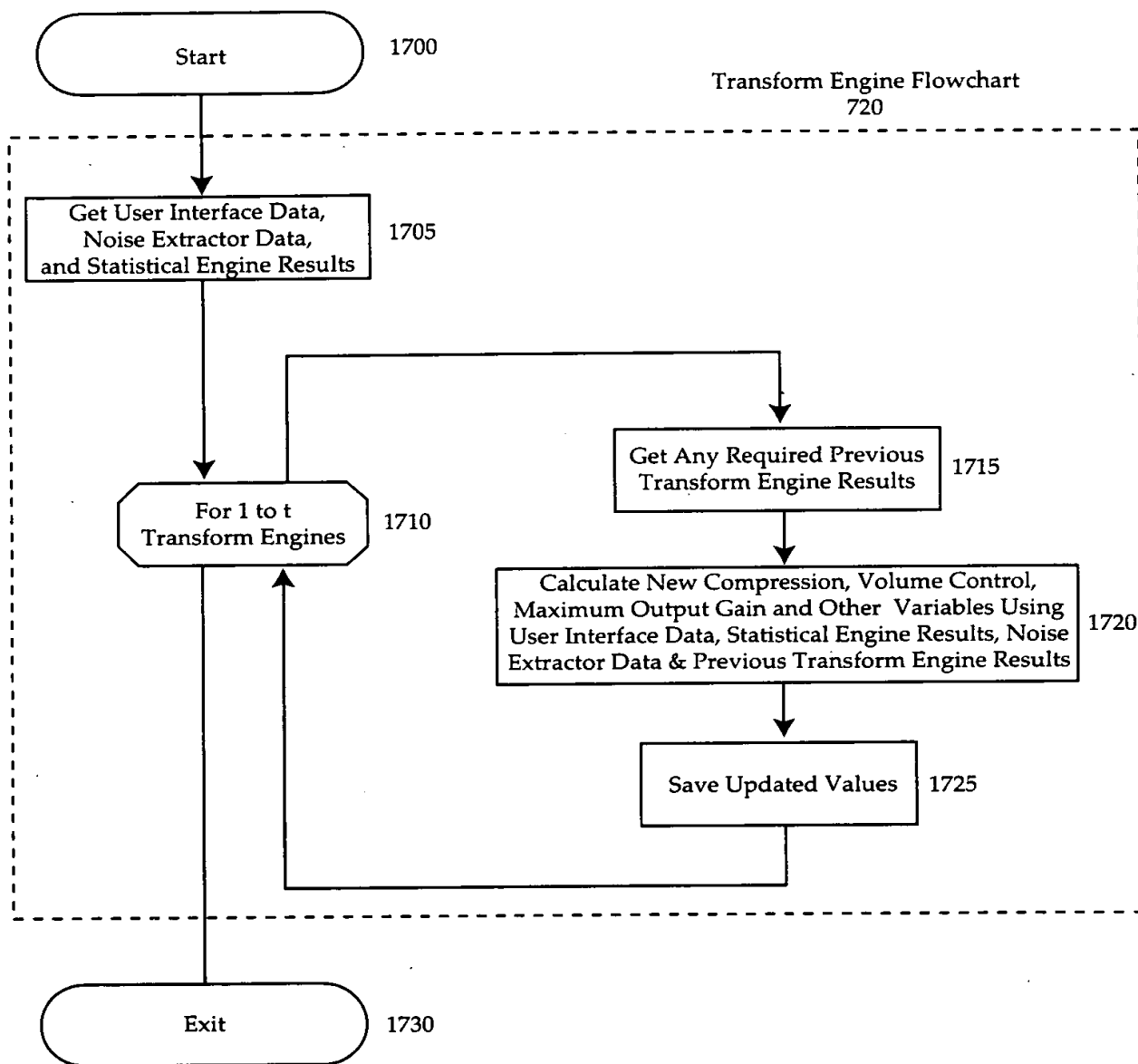


FIG. 17

Central Power Estimator Mixer Combiner
455

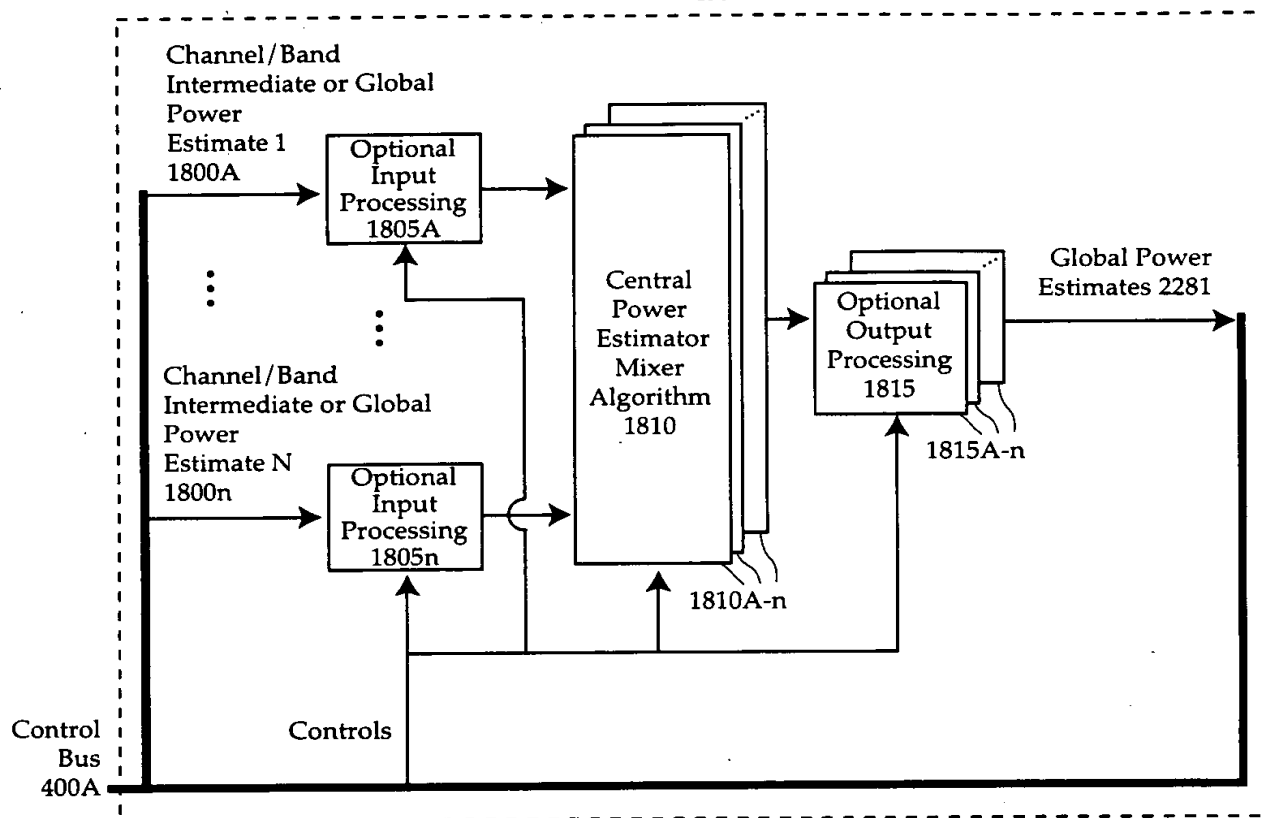


FIG. 18

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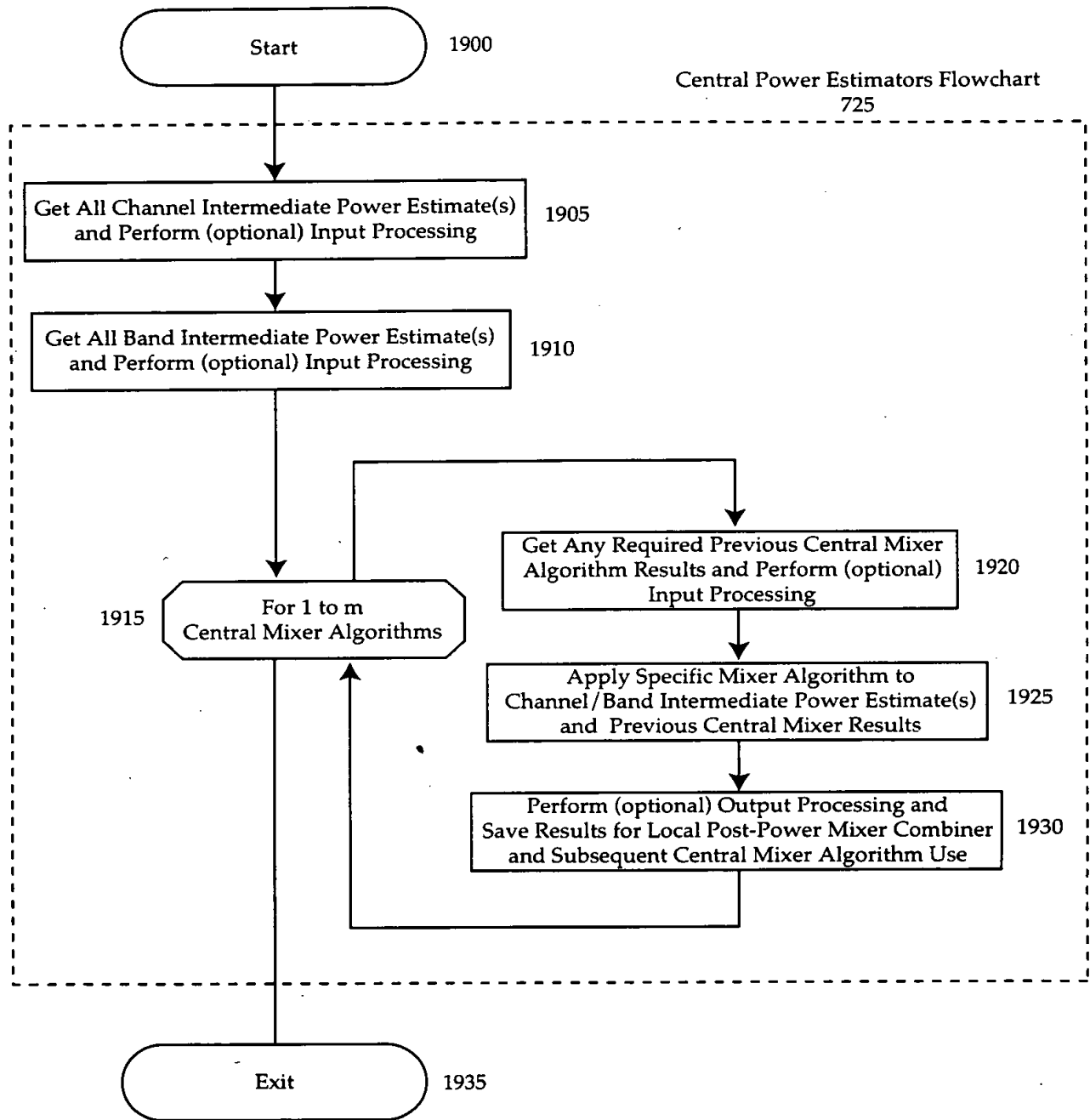


FIG. 19

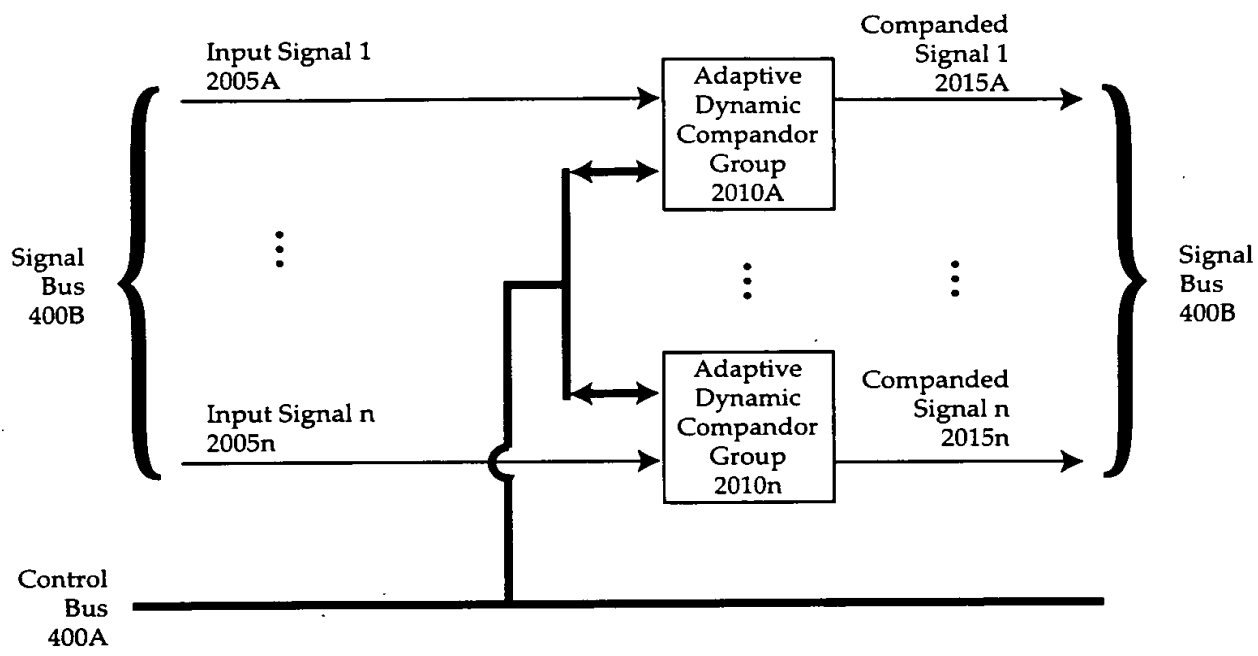


FIG. 20A

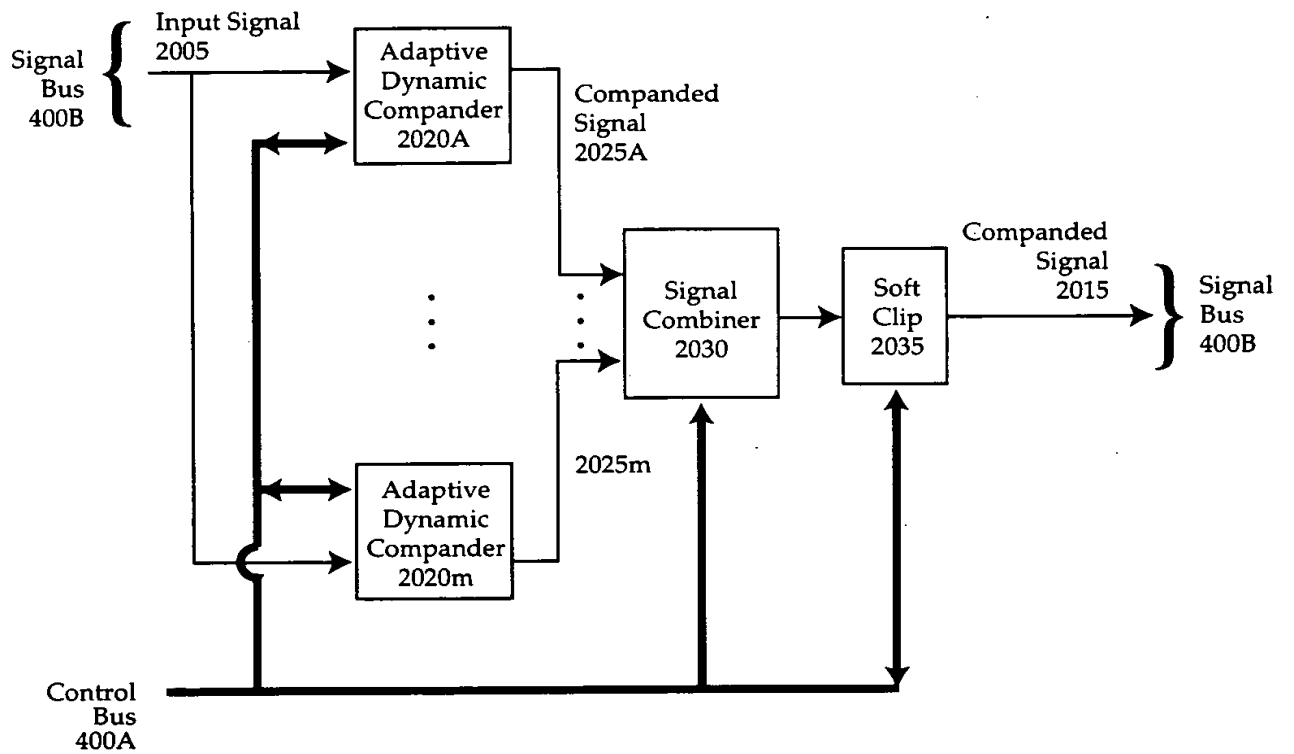


FIG. 20B

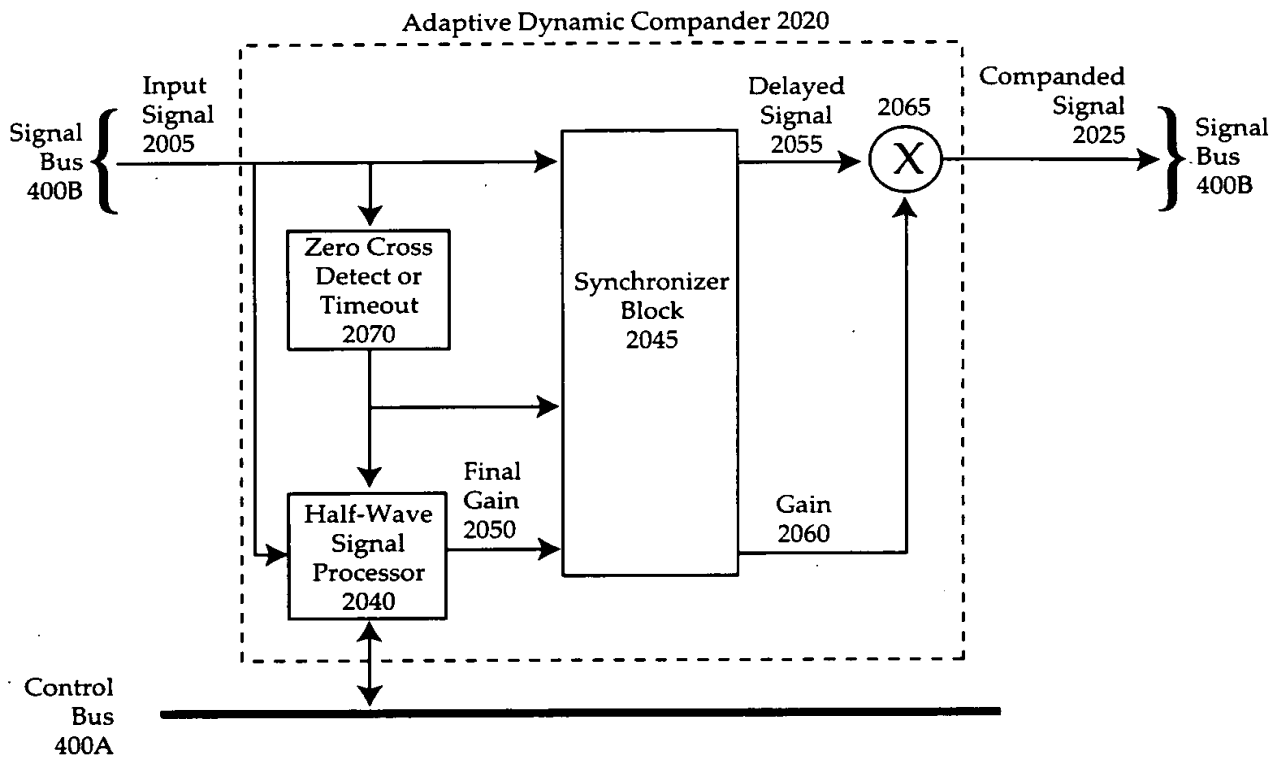


FIG. 20C

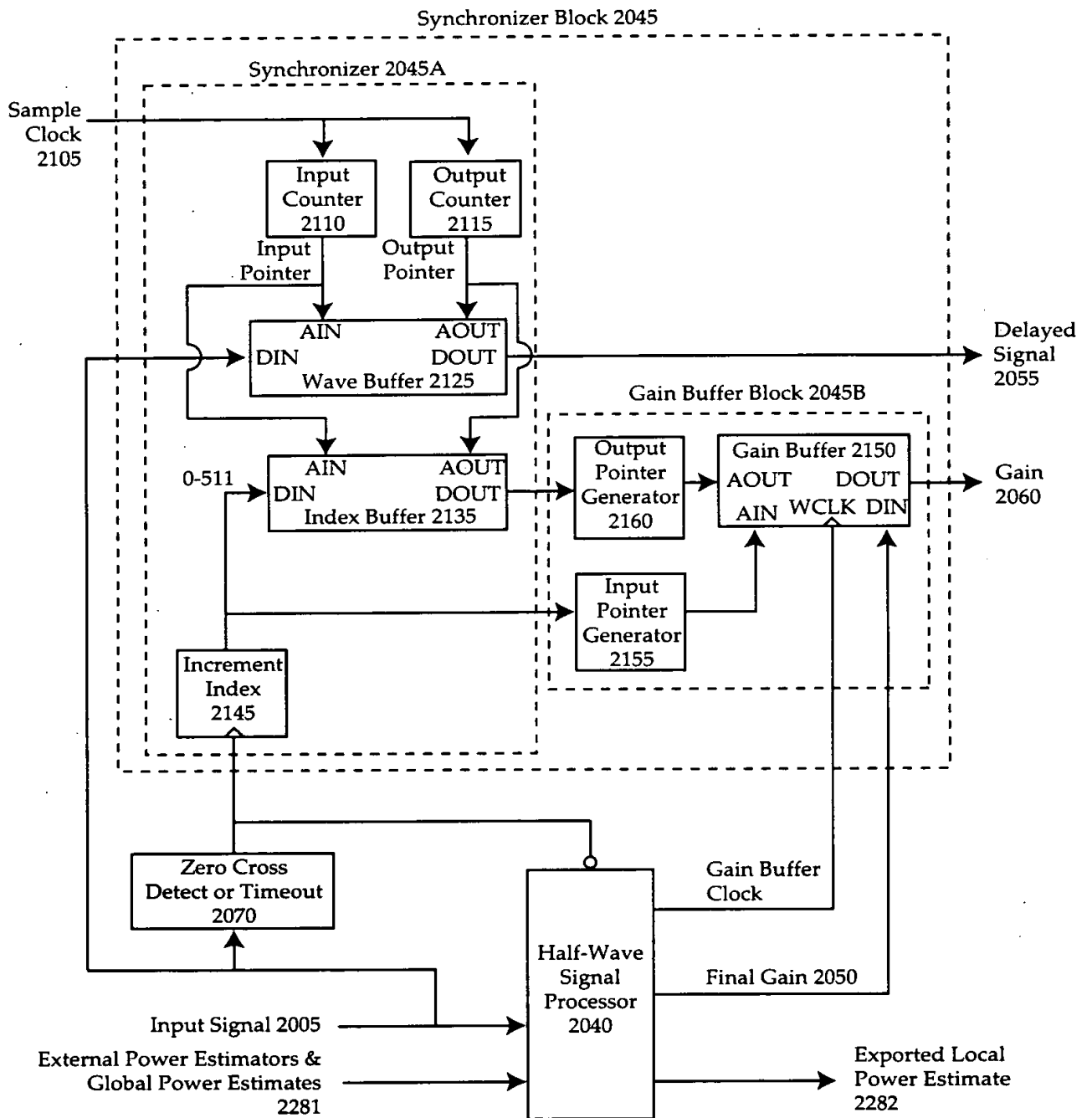


FIG. 21A

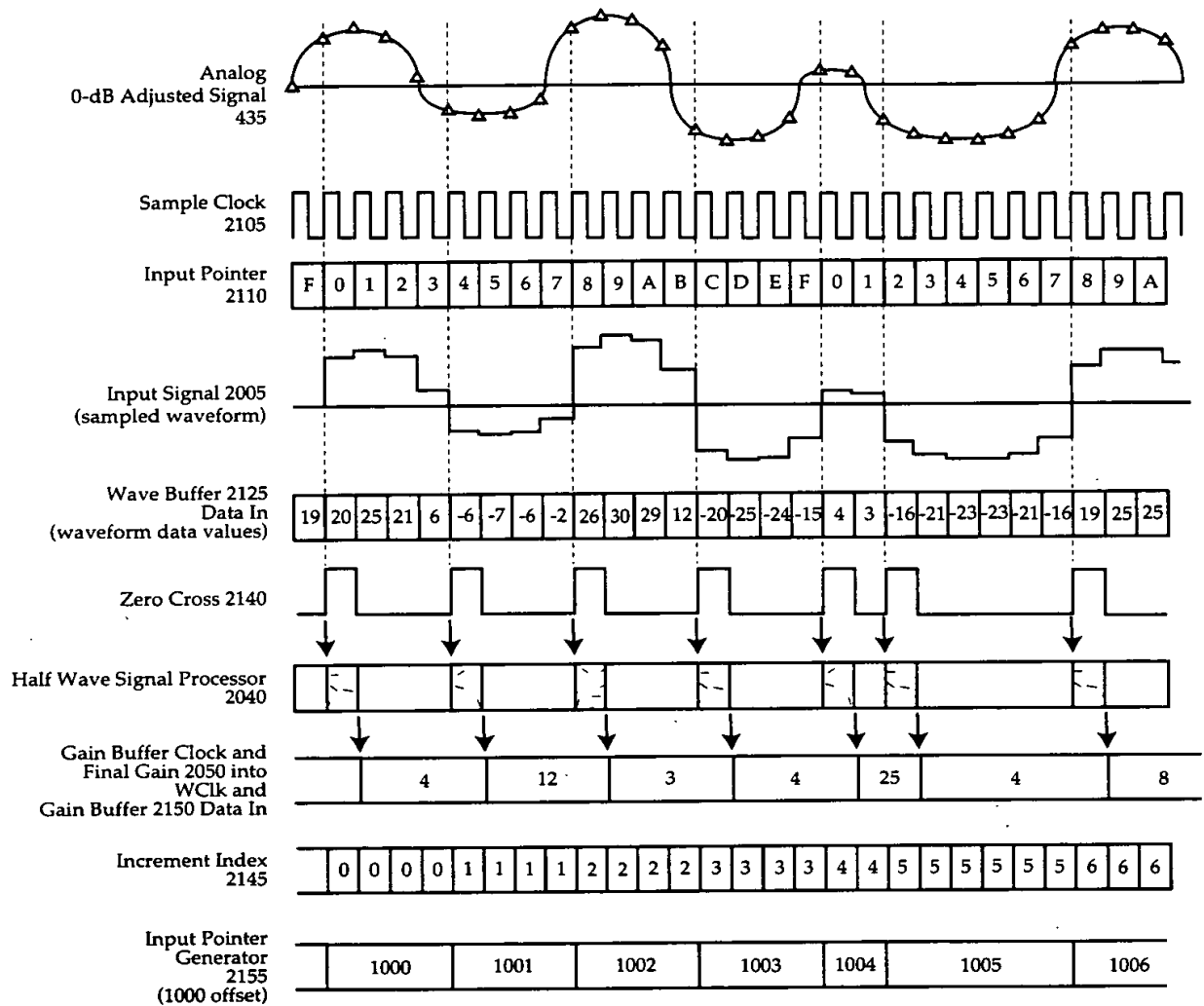


FIG. 21B

00627T"692/2760

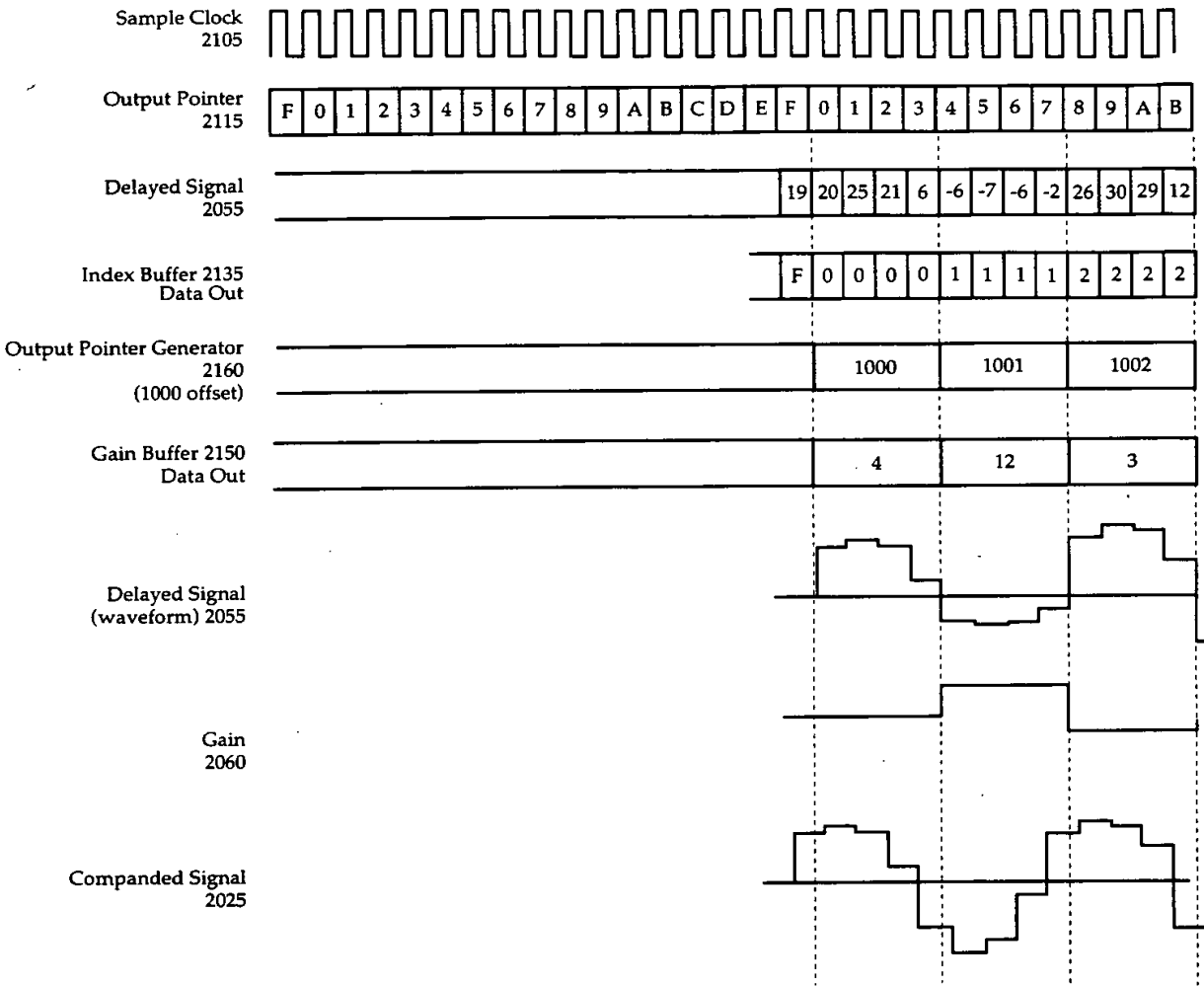


FIG. 21C

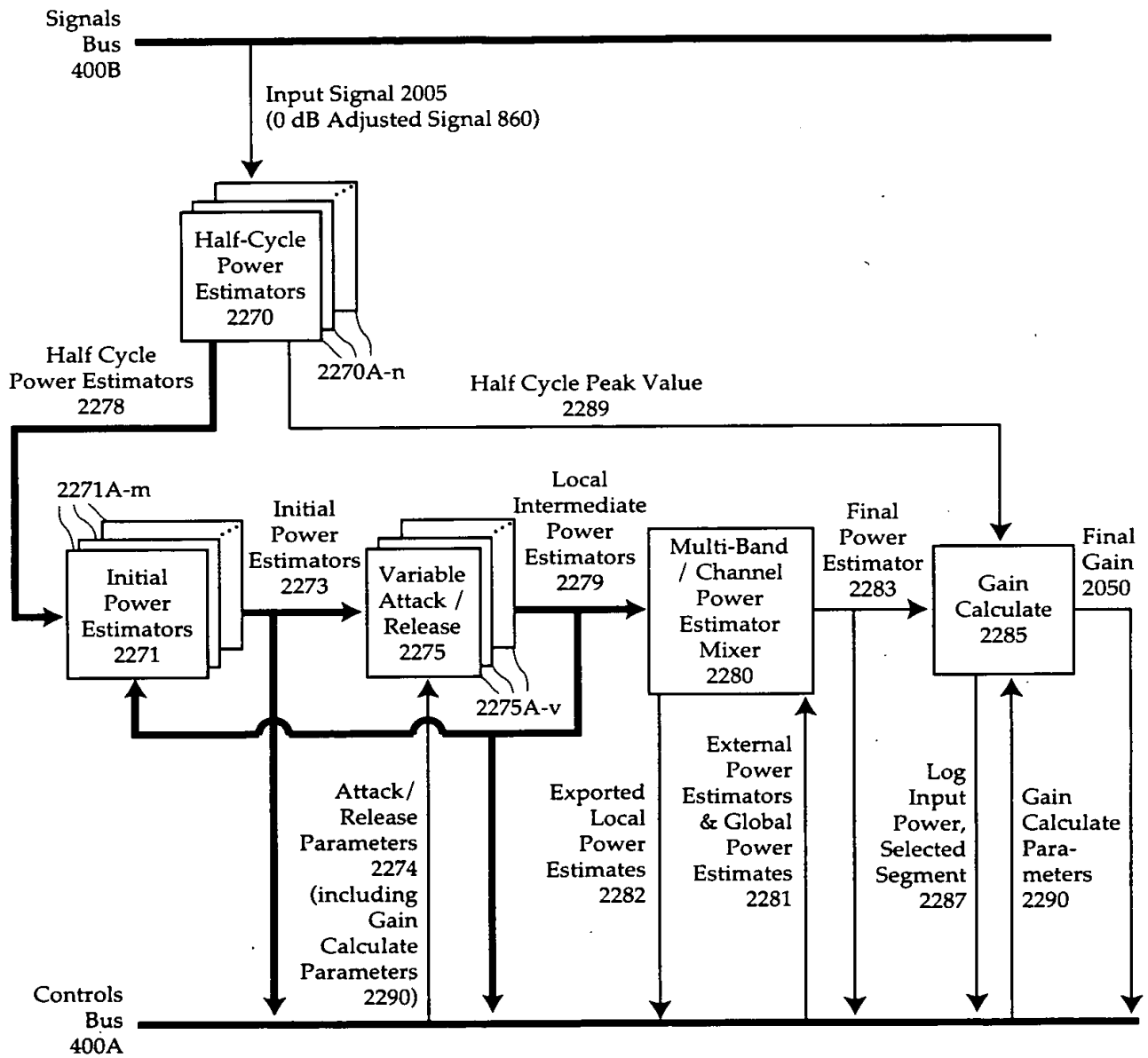


FIG. 22

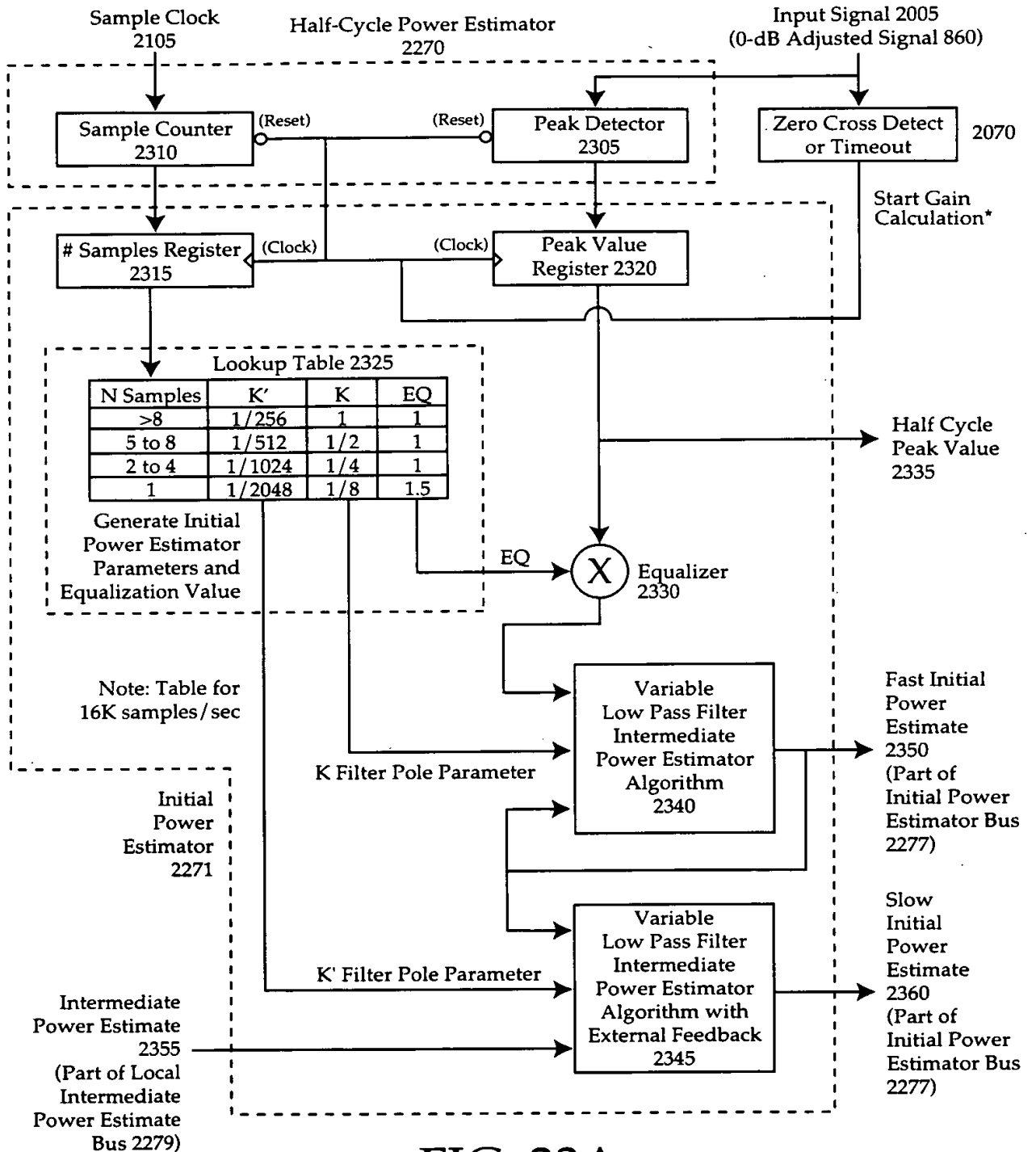


FIG. 23A

09727259-112900

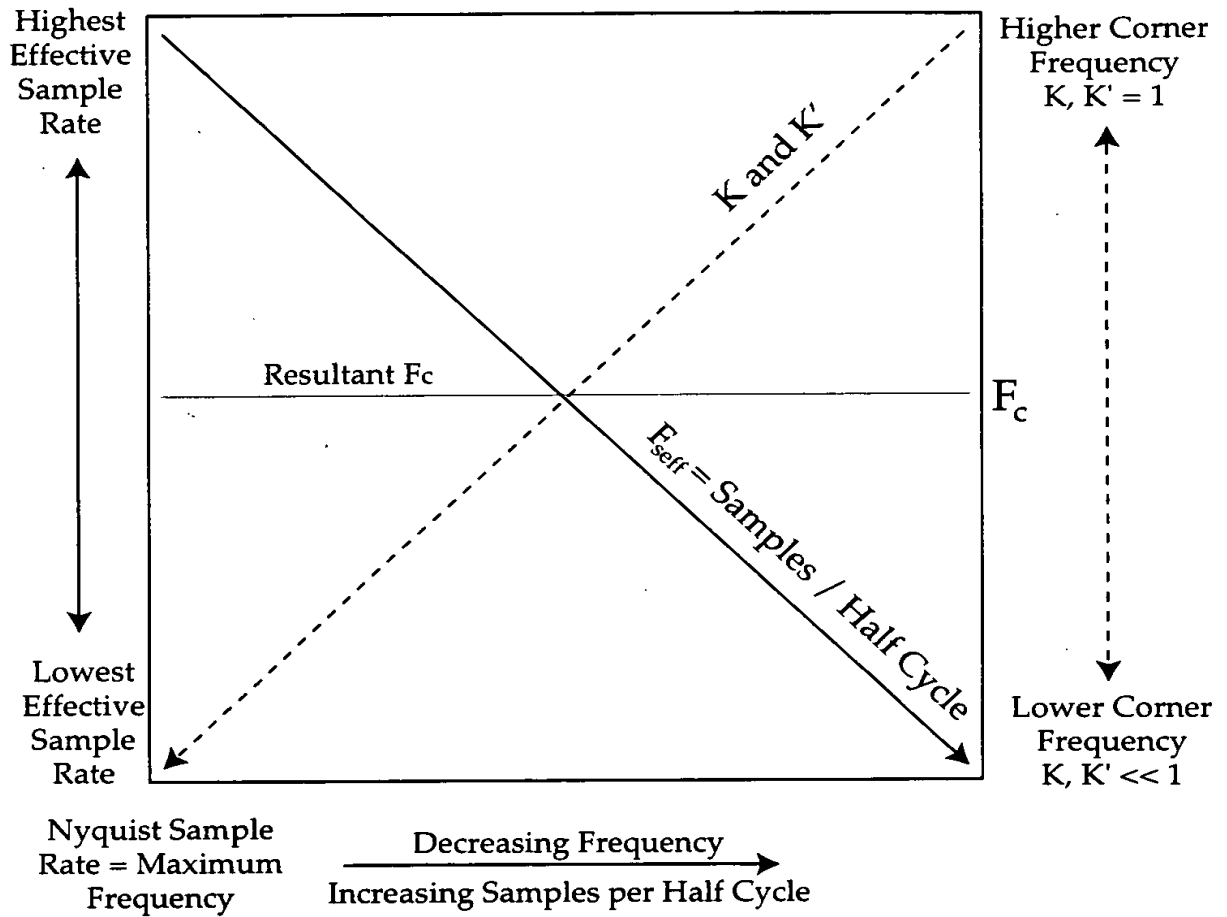
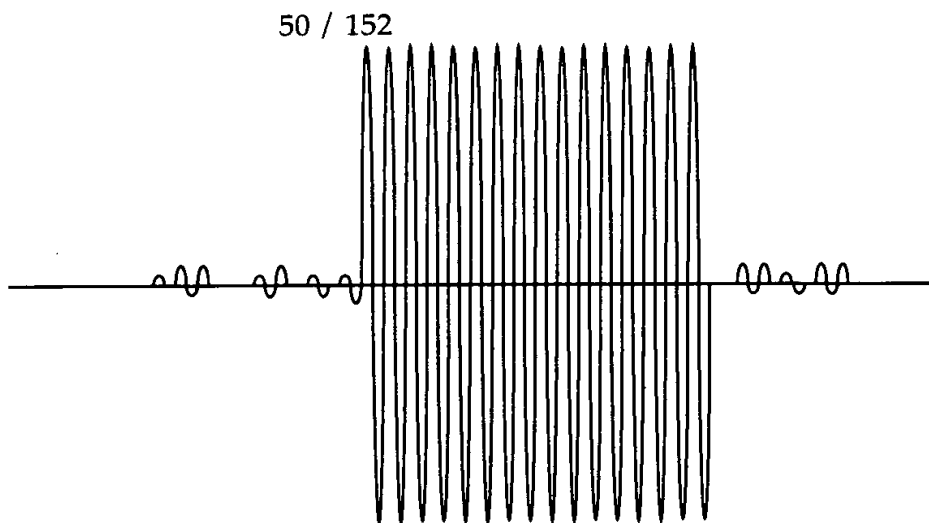
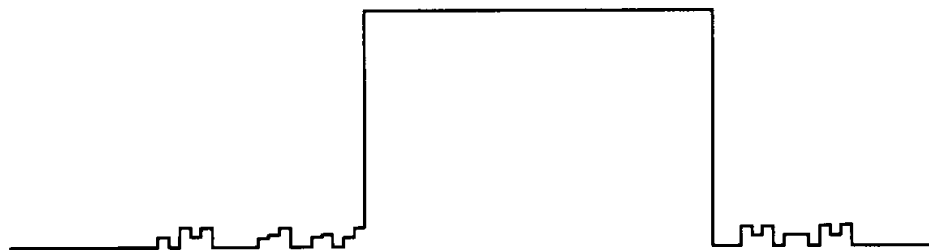


FIG. 23B

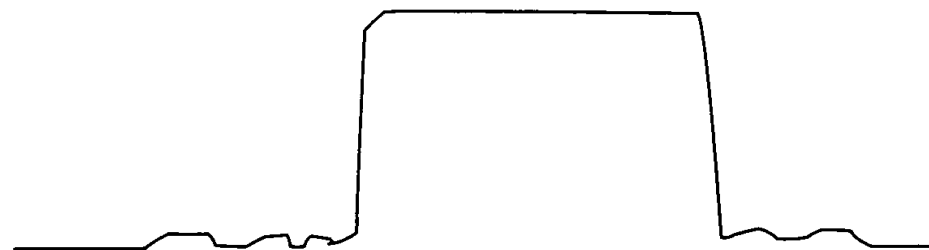
Input Signal
2005
(0-dB Adjusted
Signal 860)



Half Cycle
Peak Value
2289



Fast Initial
Power Estimate
2350



Intermediate
Power
Estimate
2355

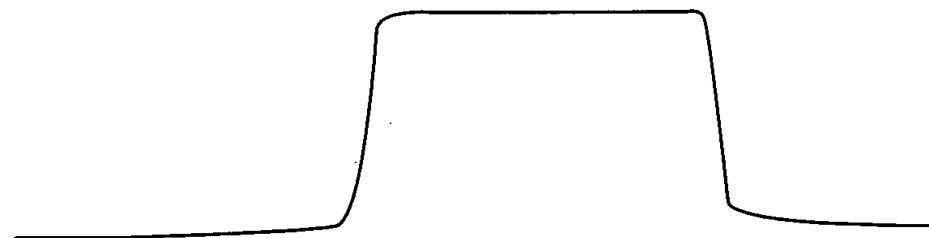


FIG. 23C

09727259 112900

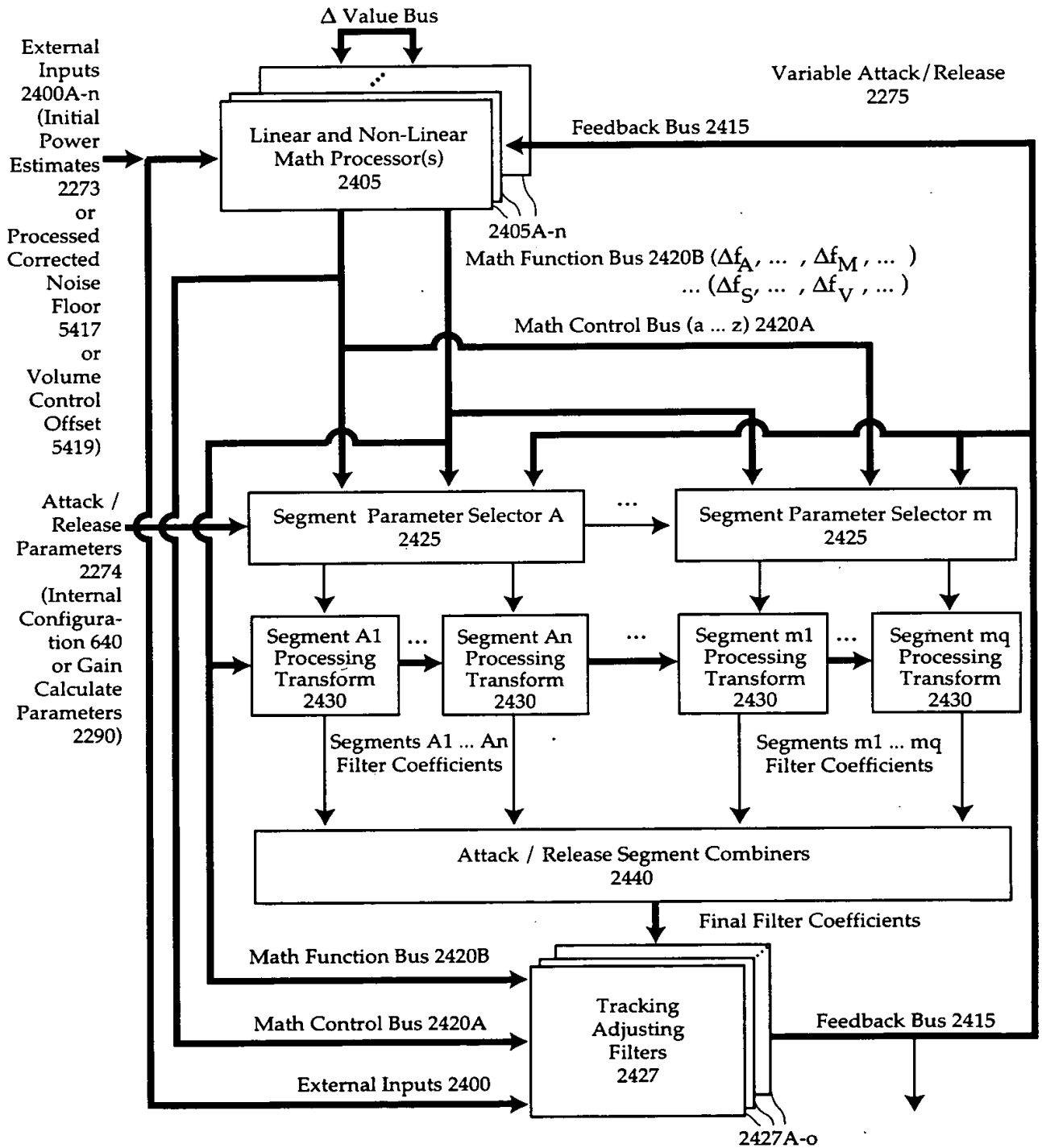


FIG. 24A

Local Intermediate Power Estimates 2279
or Long Duration Noise Floor 5425
or Long Duration Noise Offset 5427

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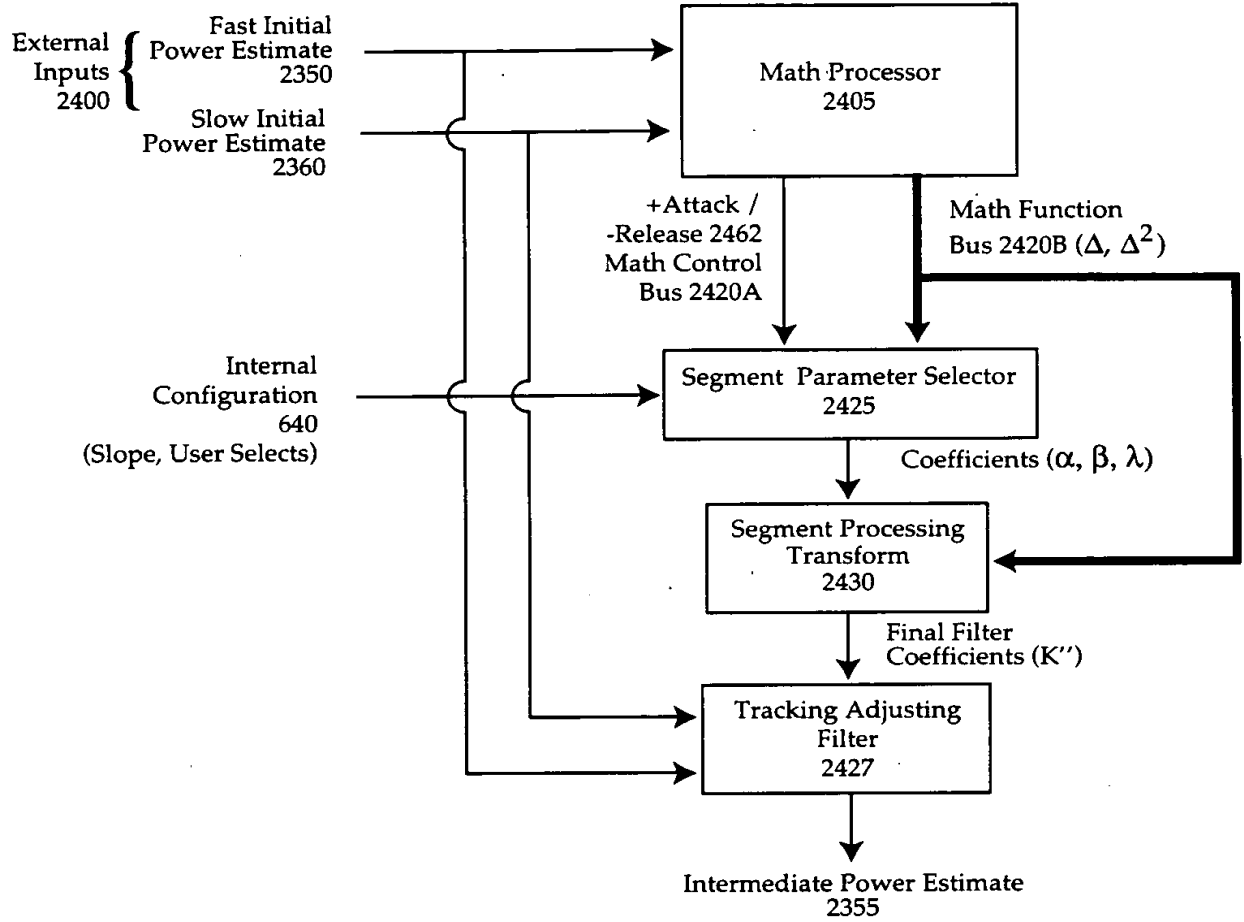
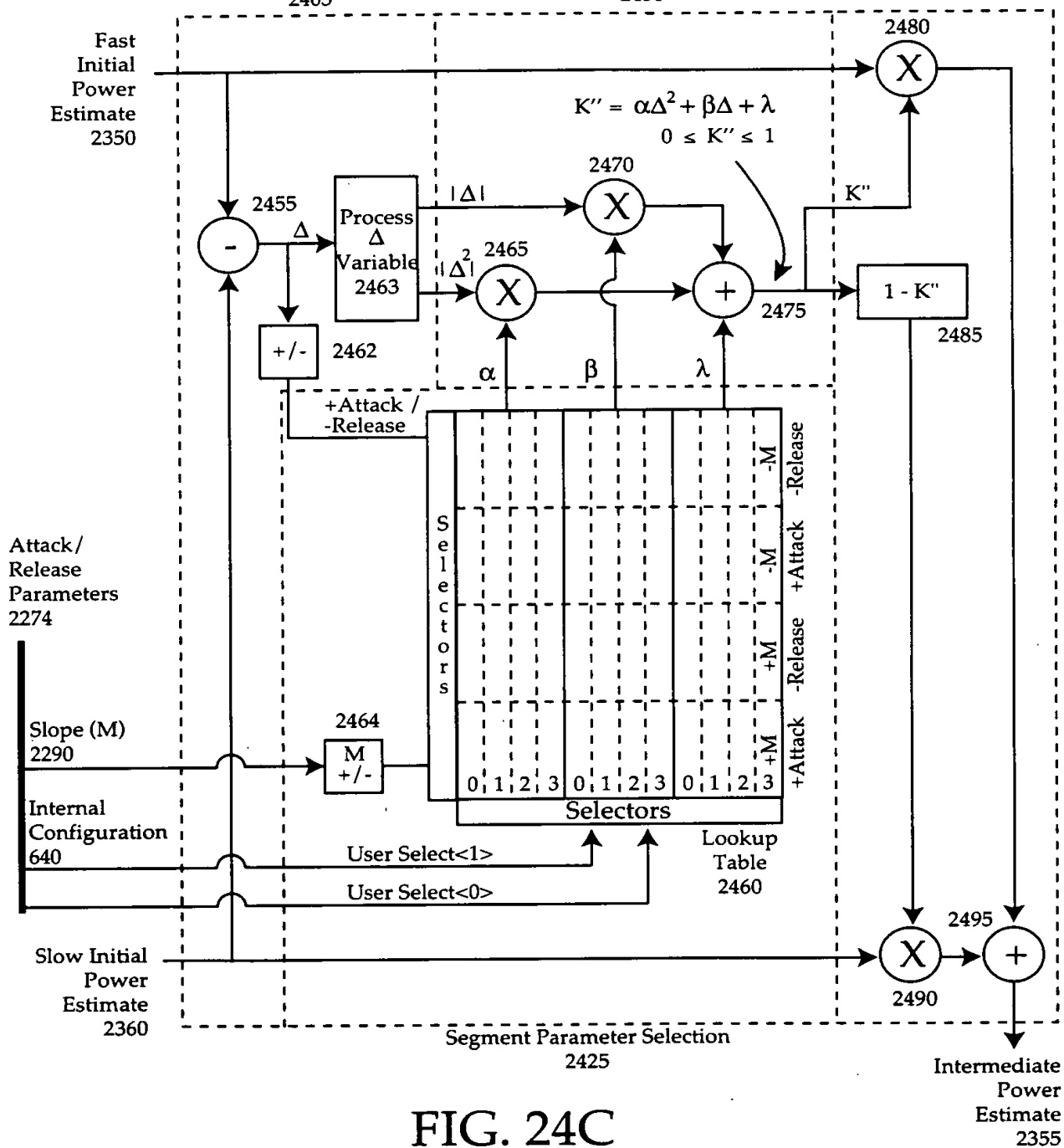


FIG. 24B



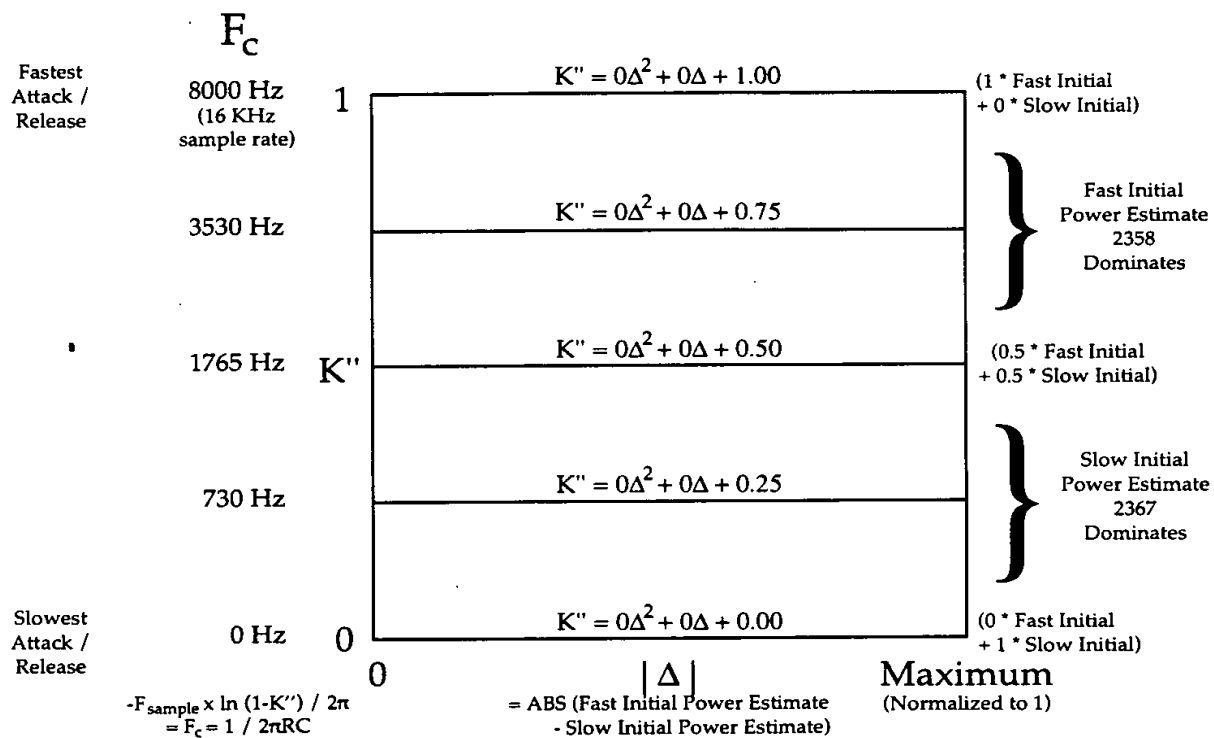


FIG. 24D

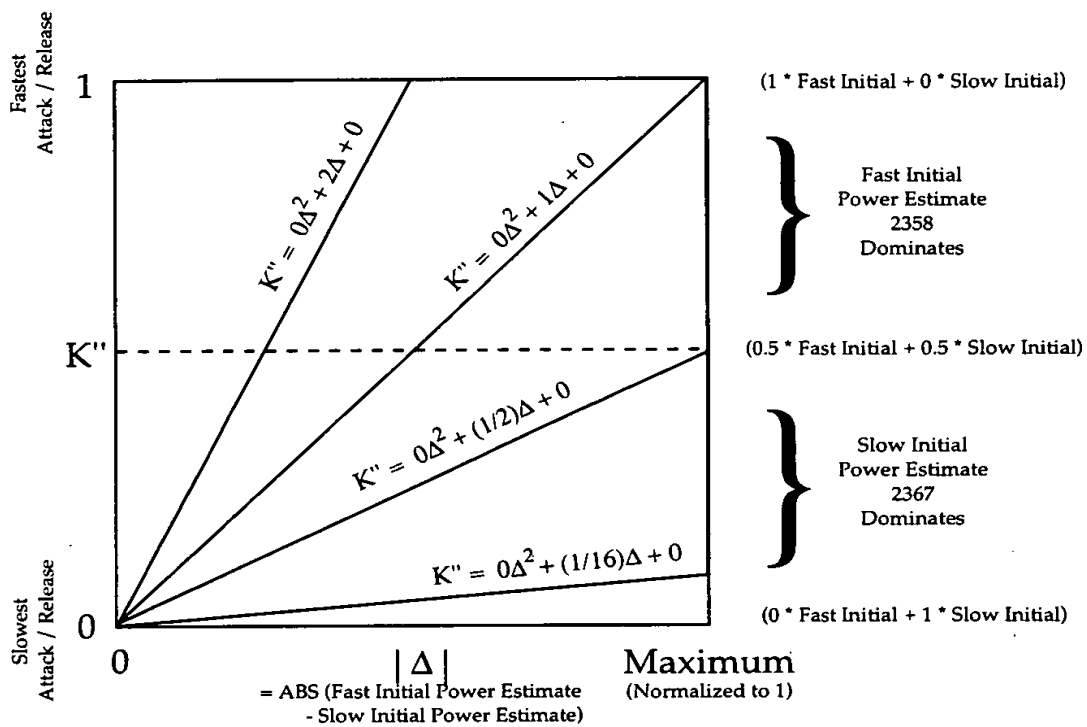


FIG. 24E

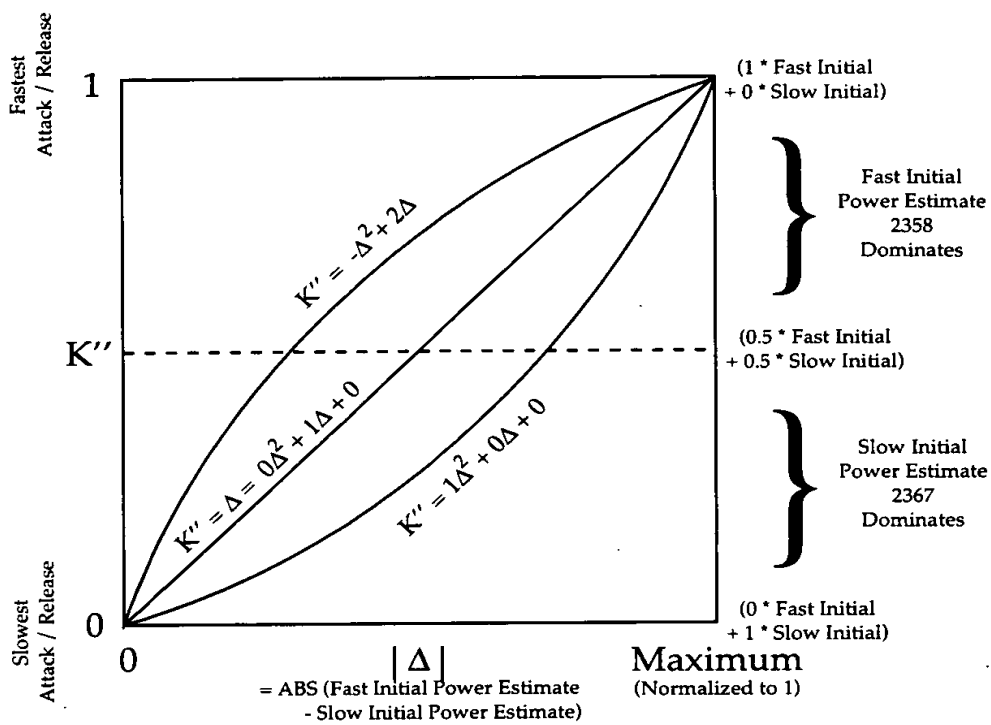


FIG. 24F

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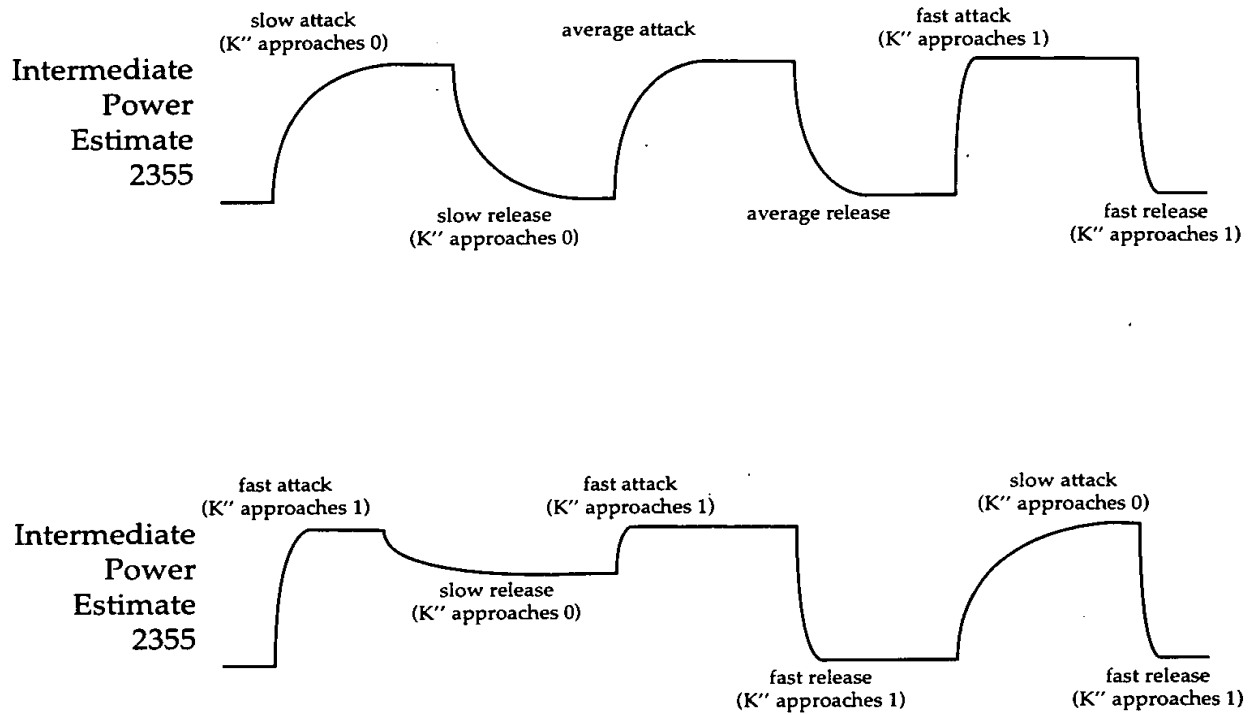


FIG. 24G

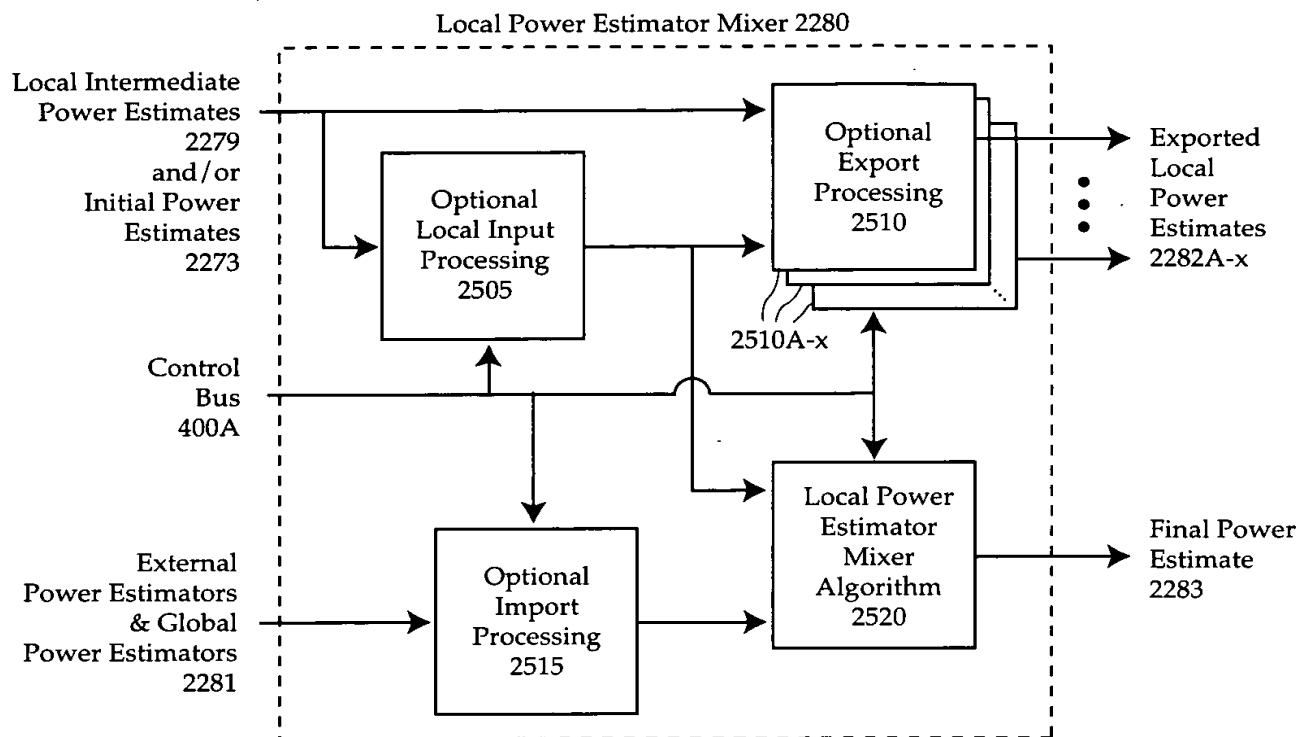


FIG. 25A

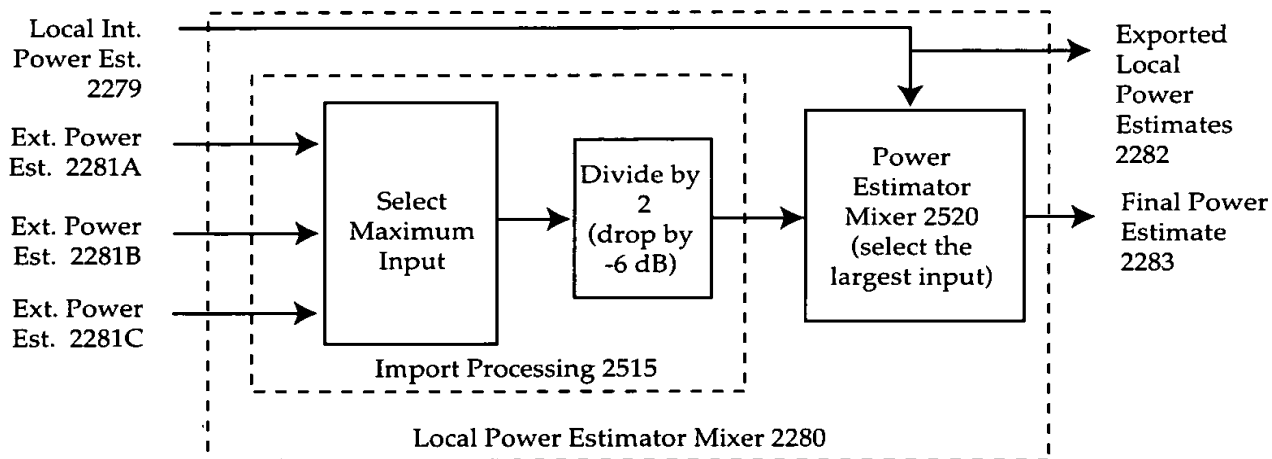


FIG. 25B

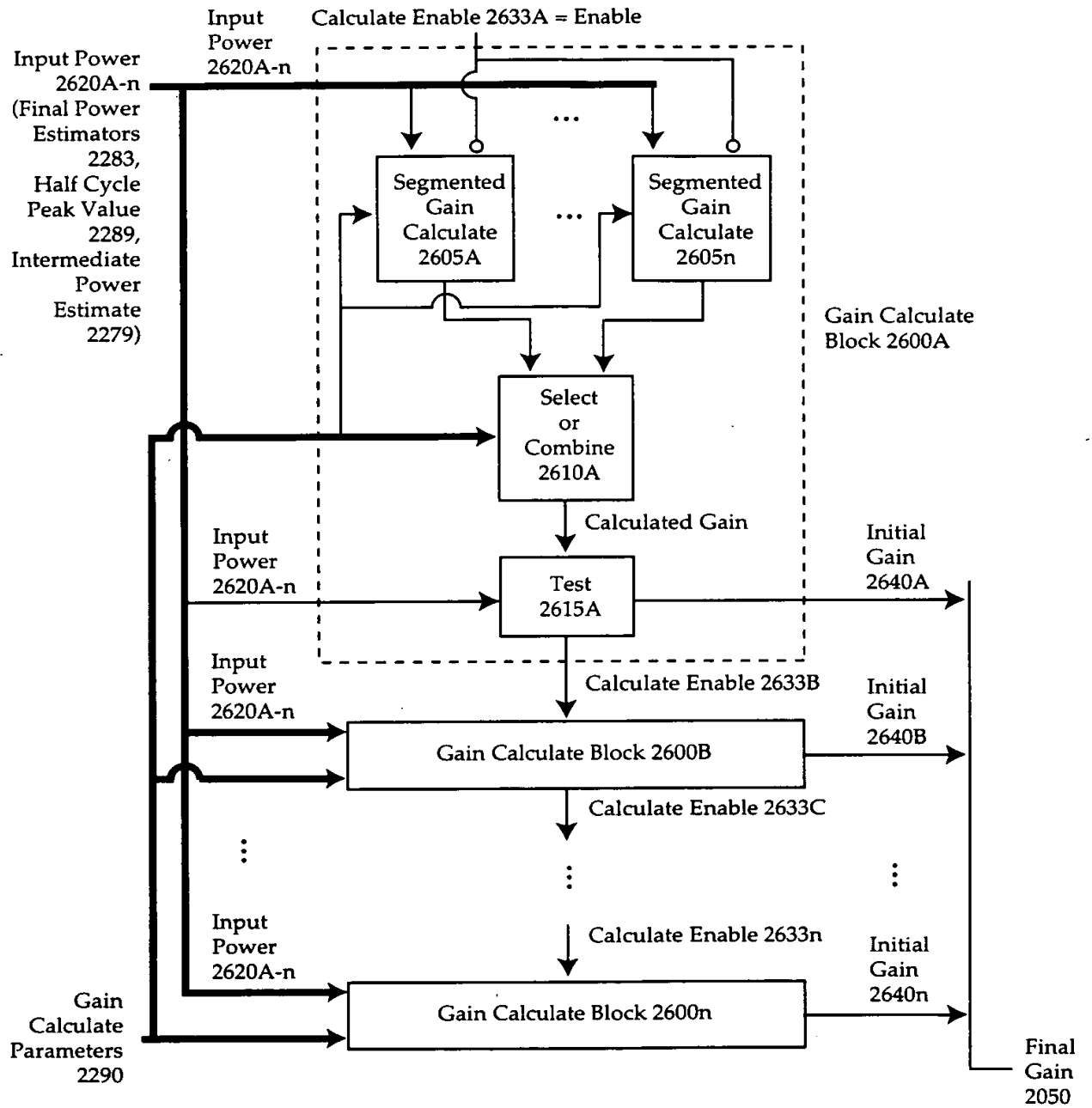


FIG. 26A

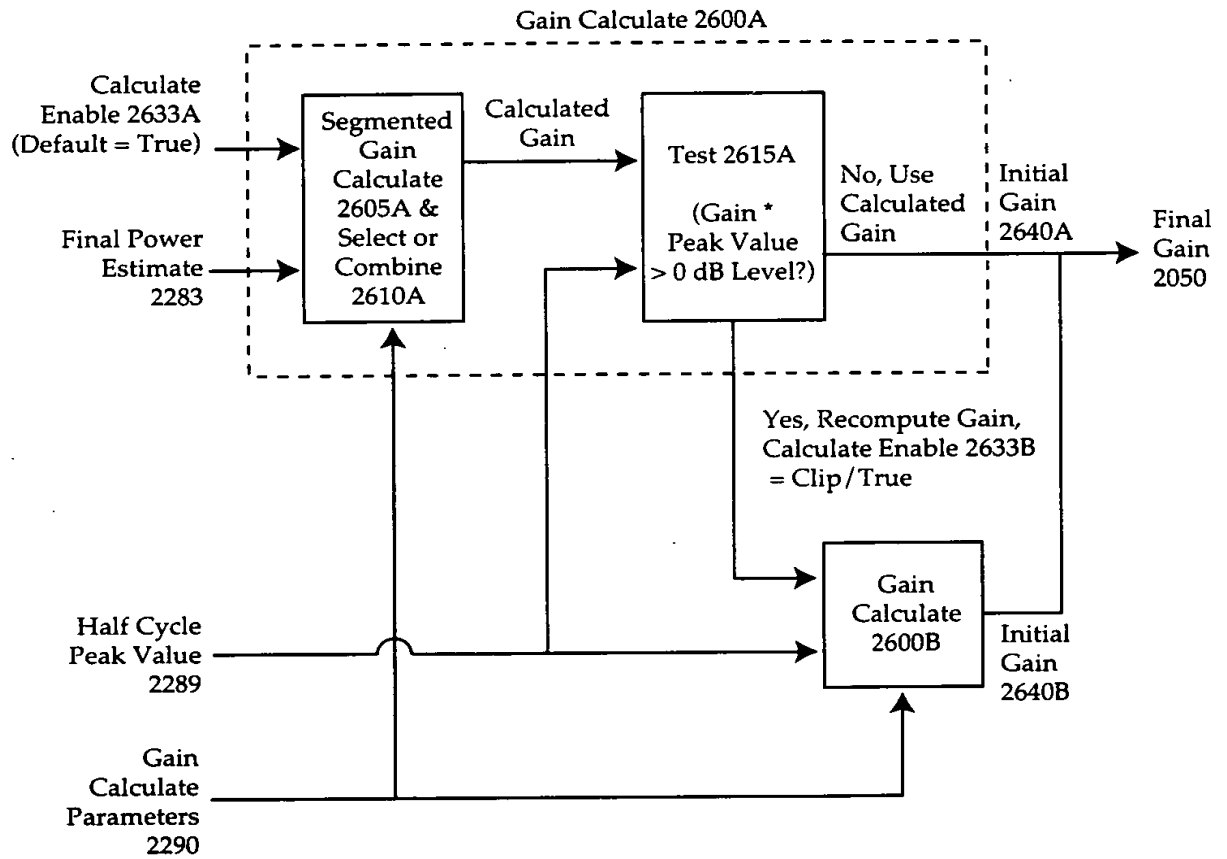


FIG. 26B

00627T" 6922260

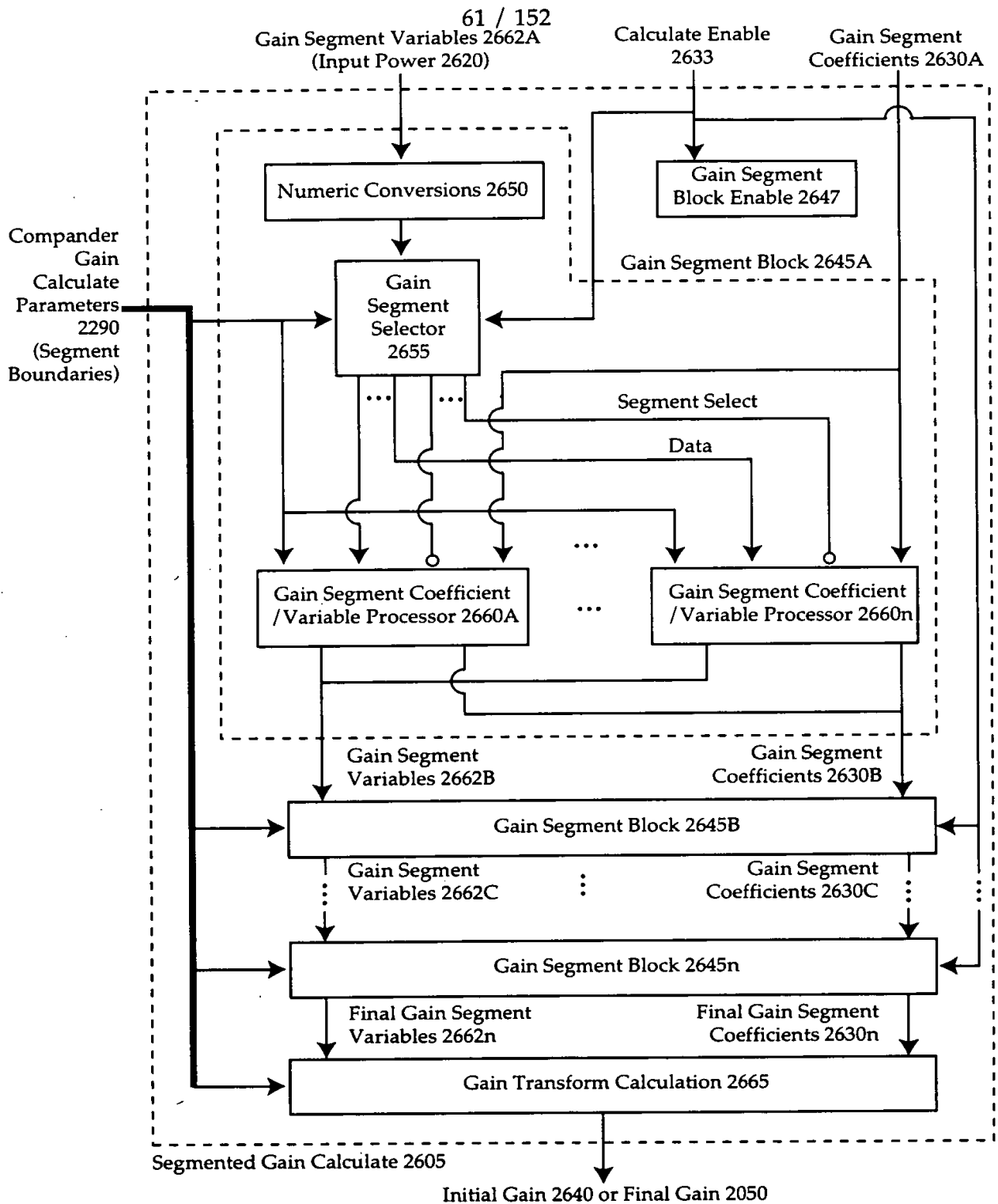


FIG. 26C

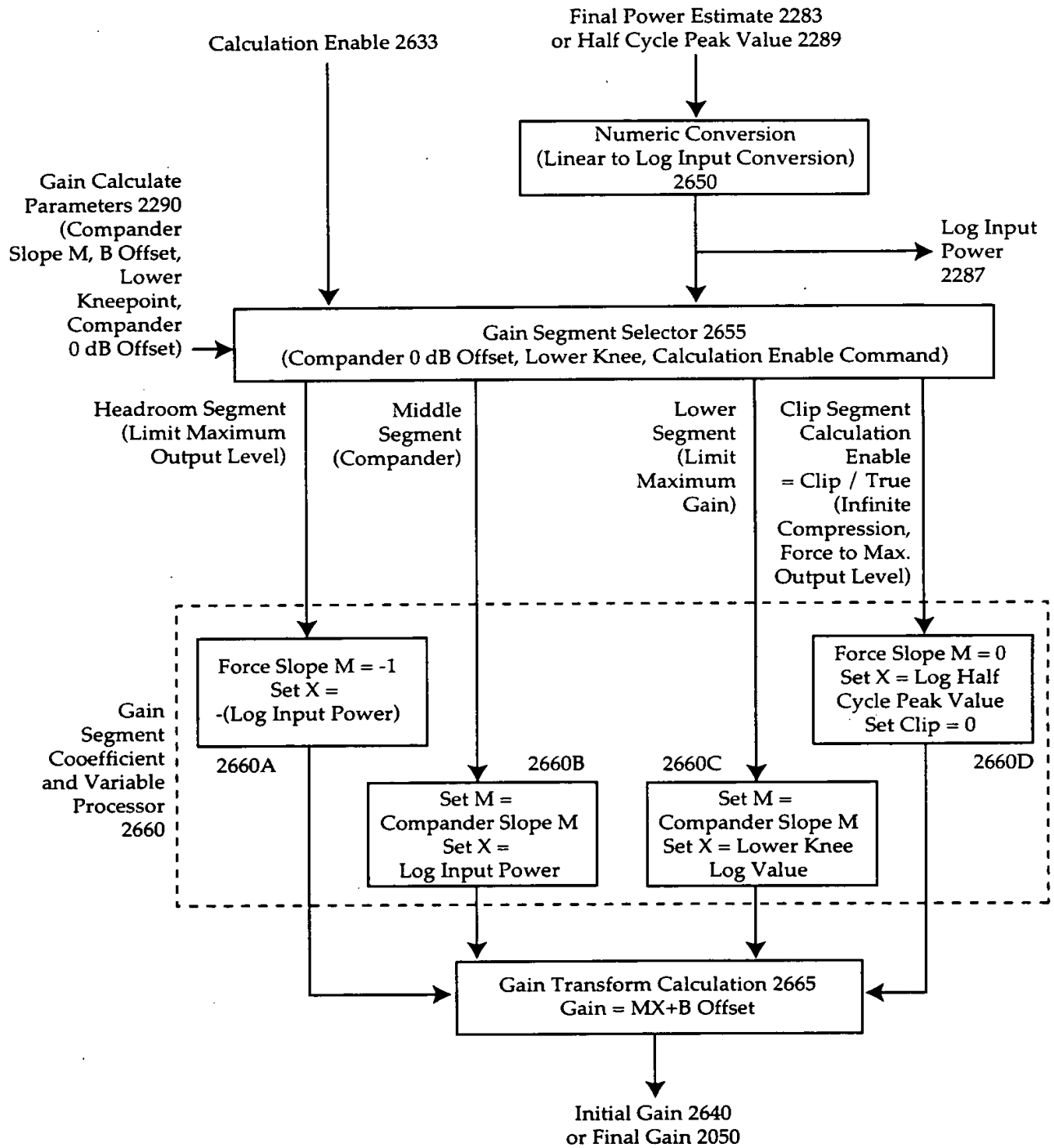


FIG. 26D

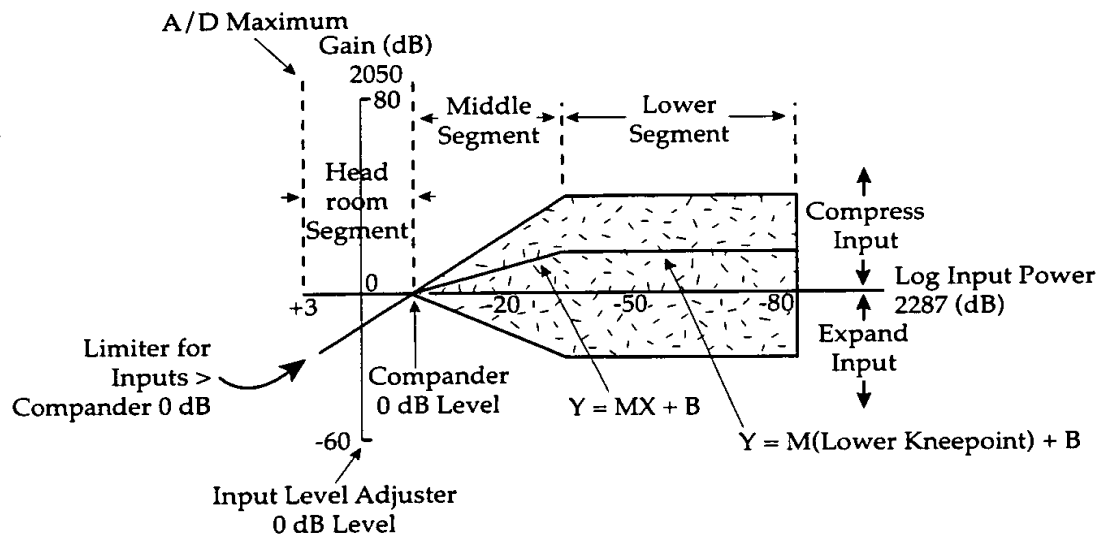


FIG. 26E

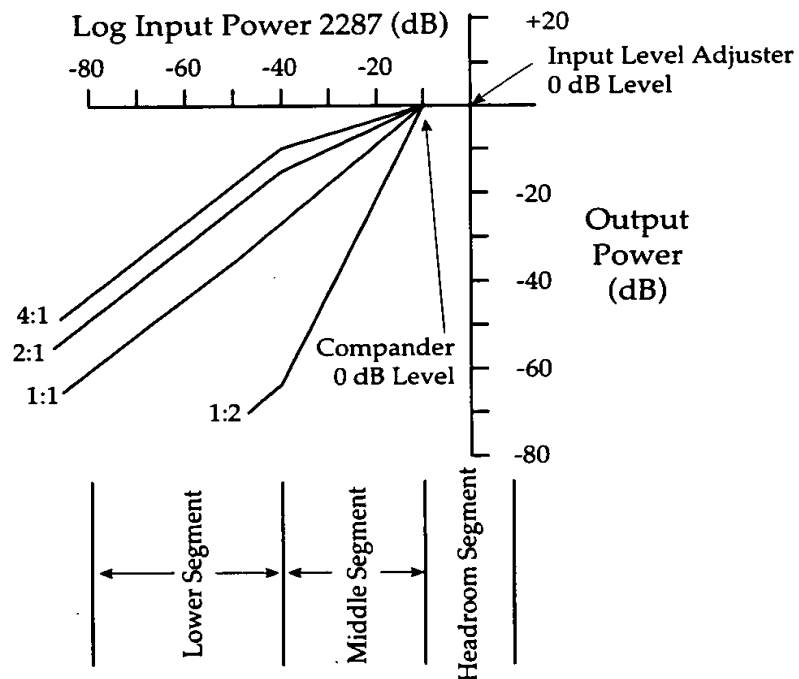


FIG. 26F

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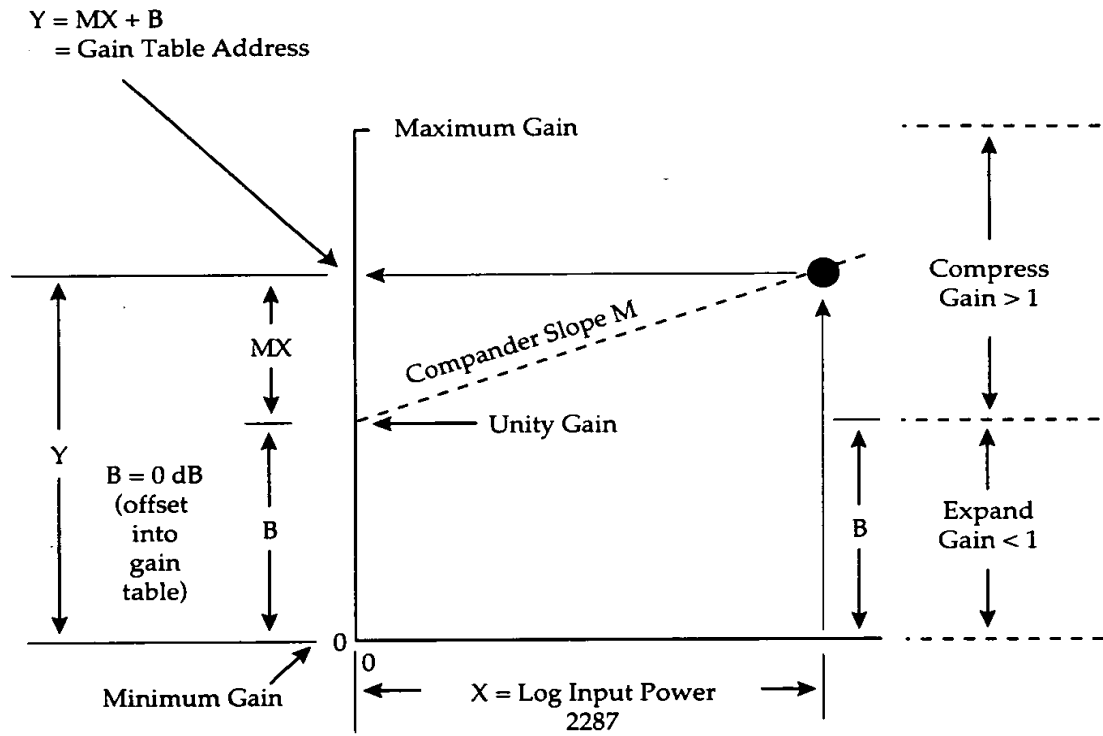


FIG. 26G

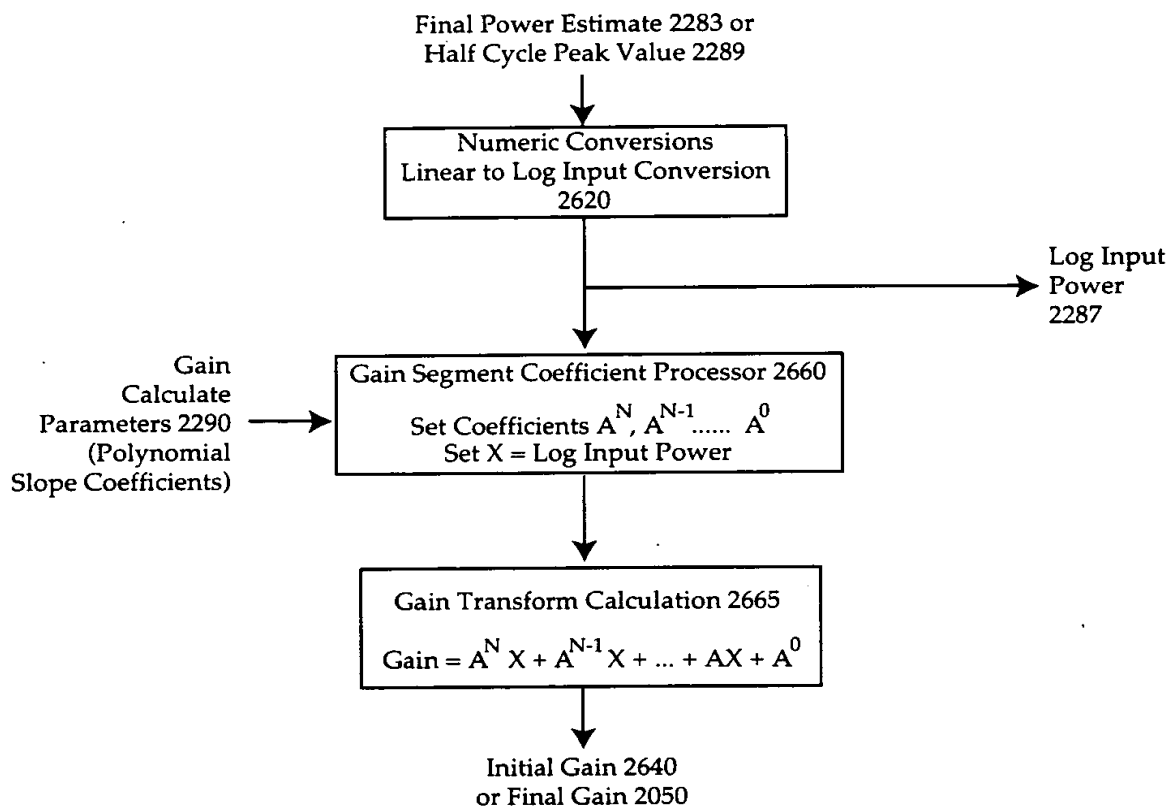


FIG. 26H

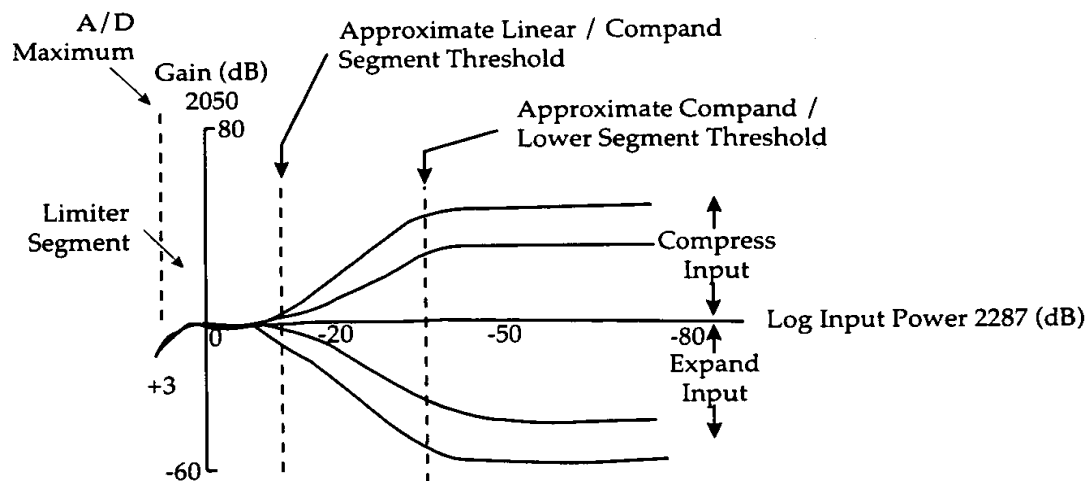


FIG. 26I

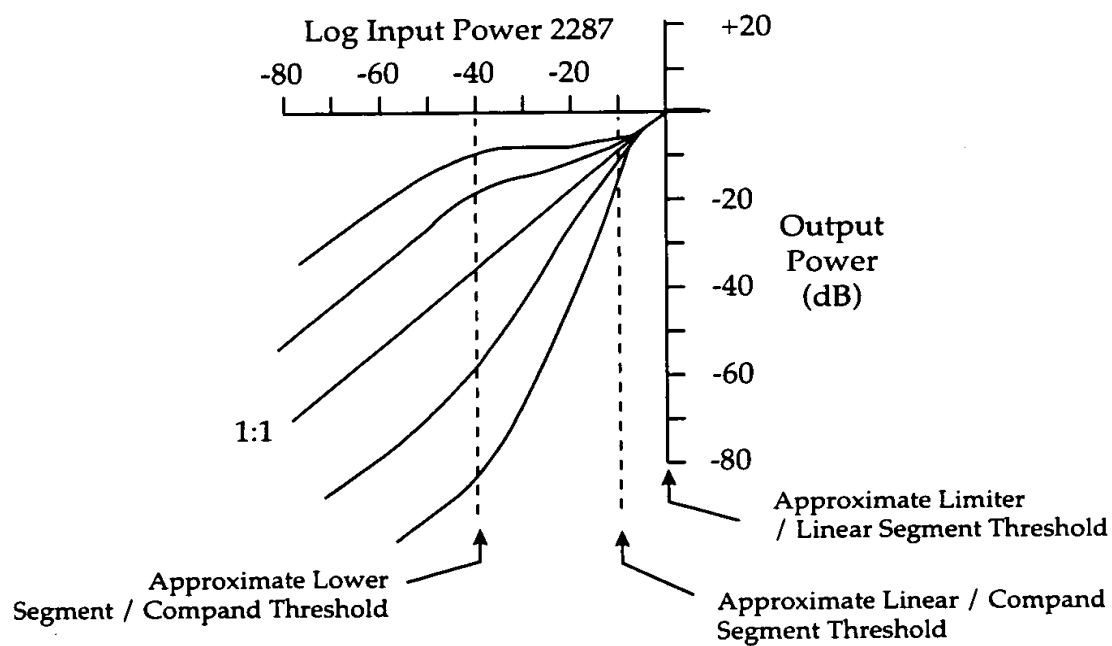


FIG. 26J

09727259-112900

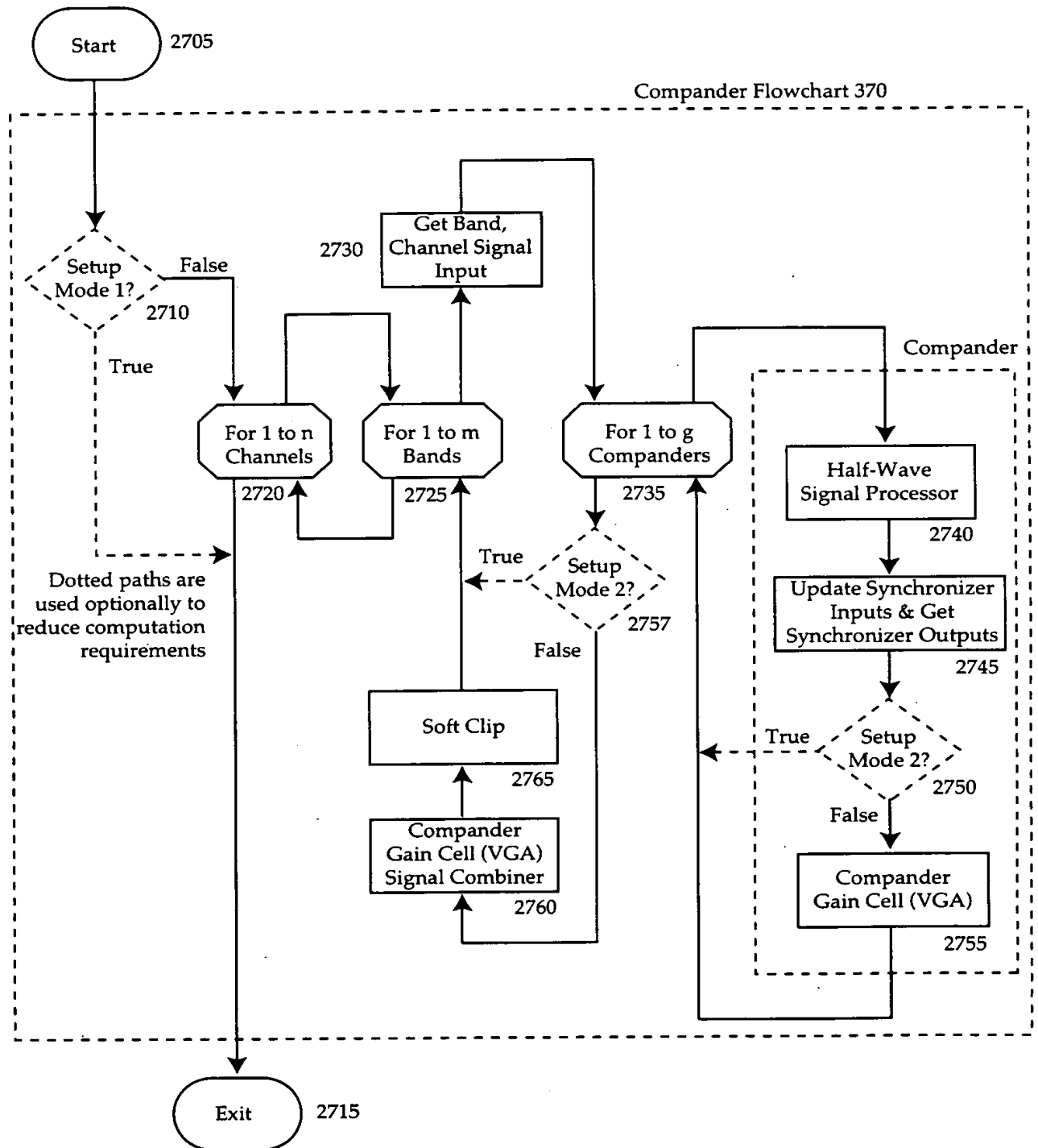


FIG. 27A

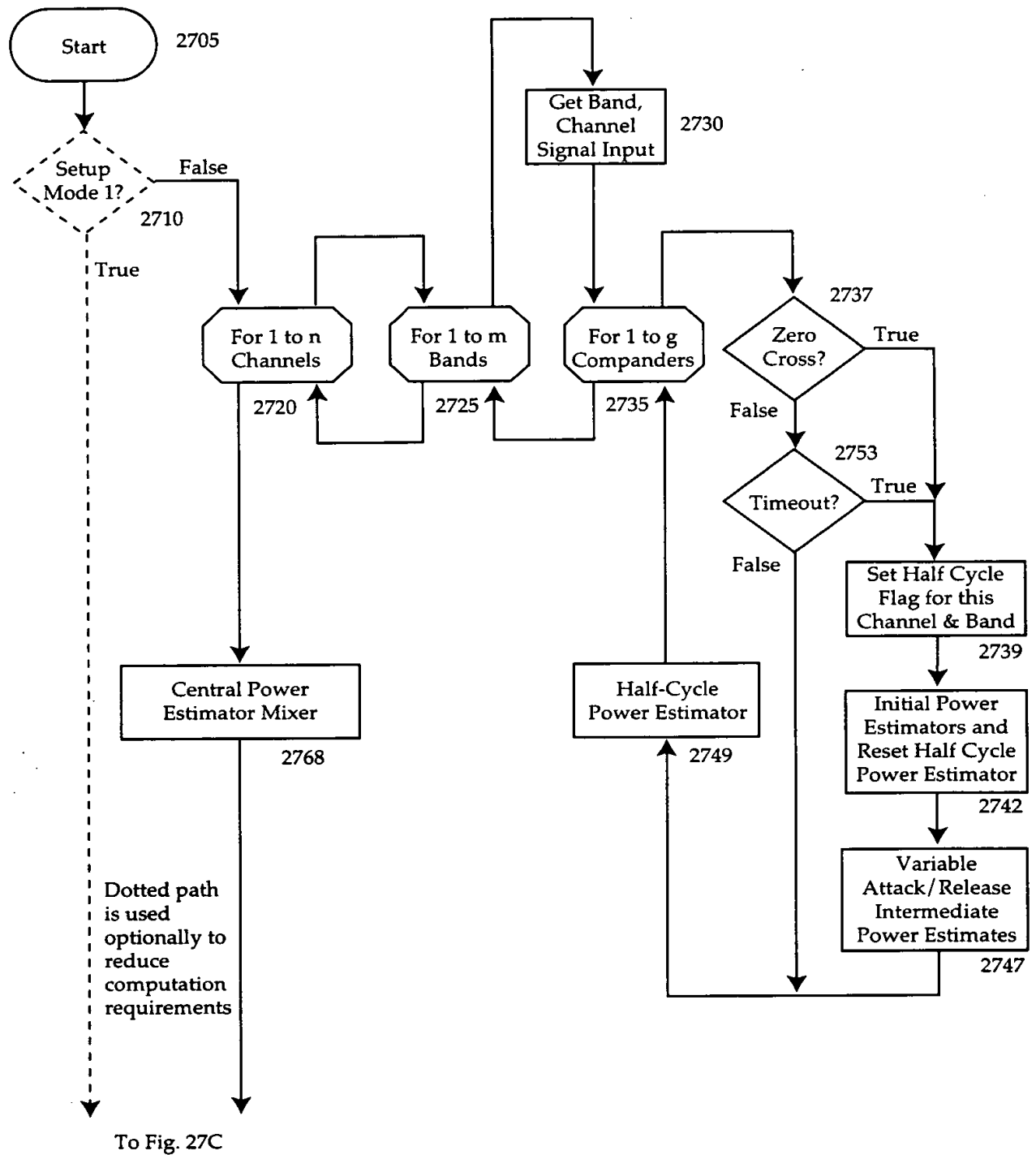


FIG. 27B

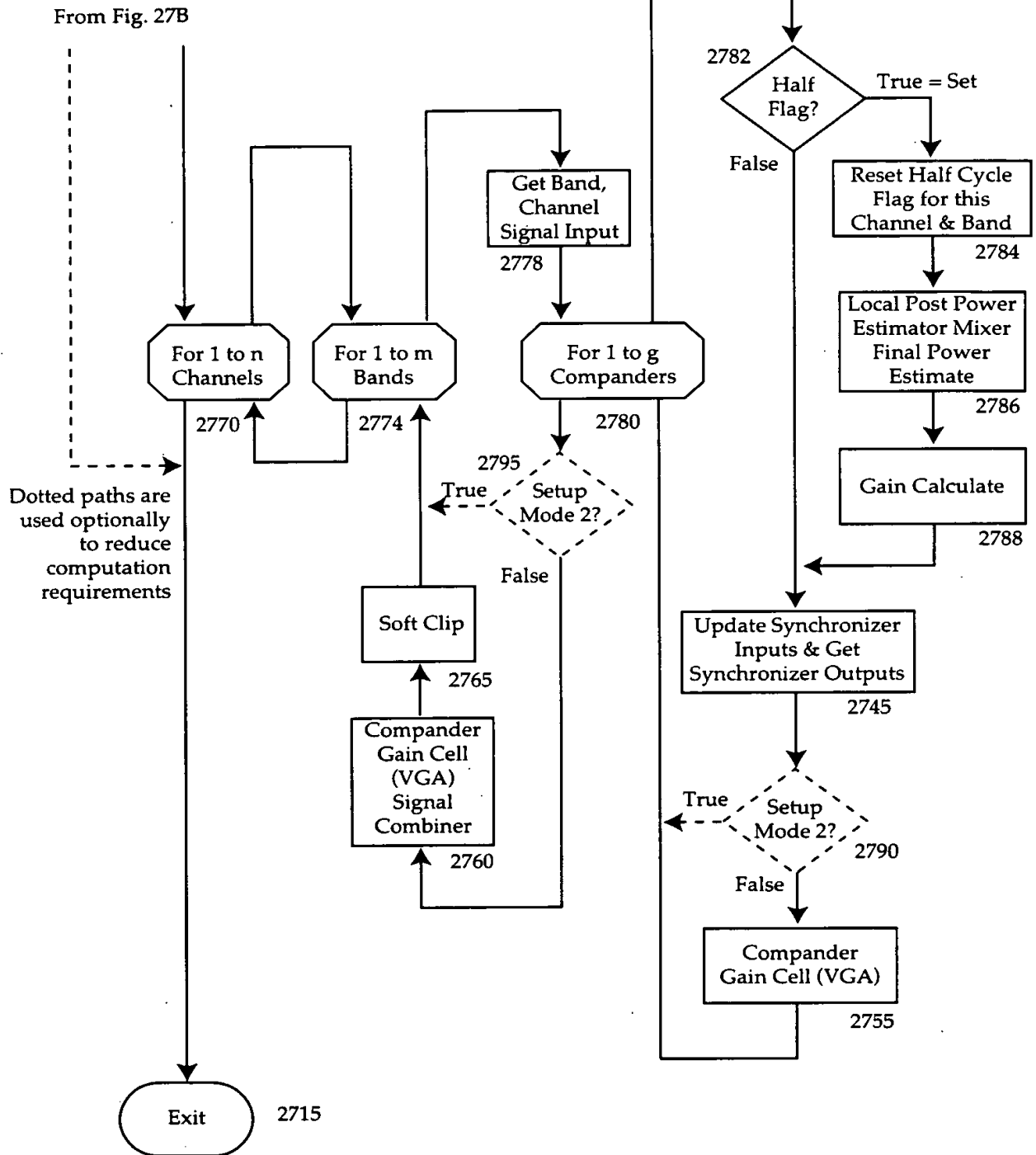


FIG. 27C

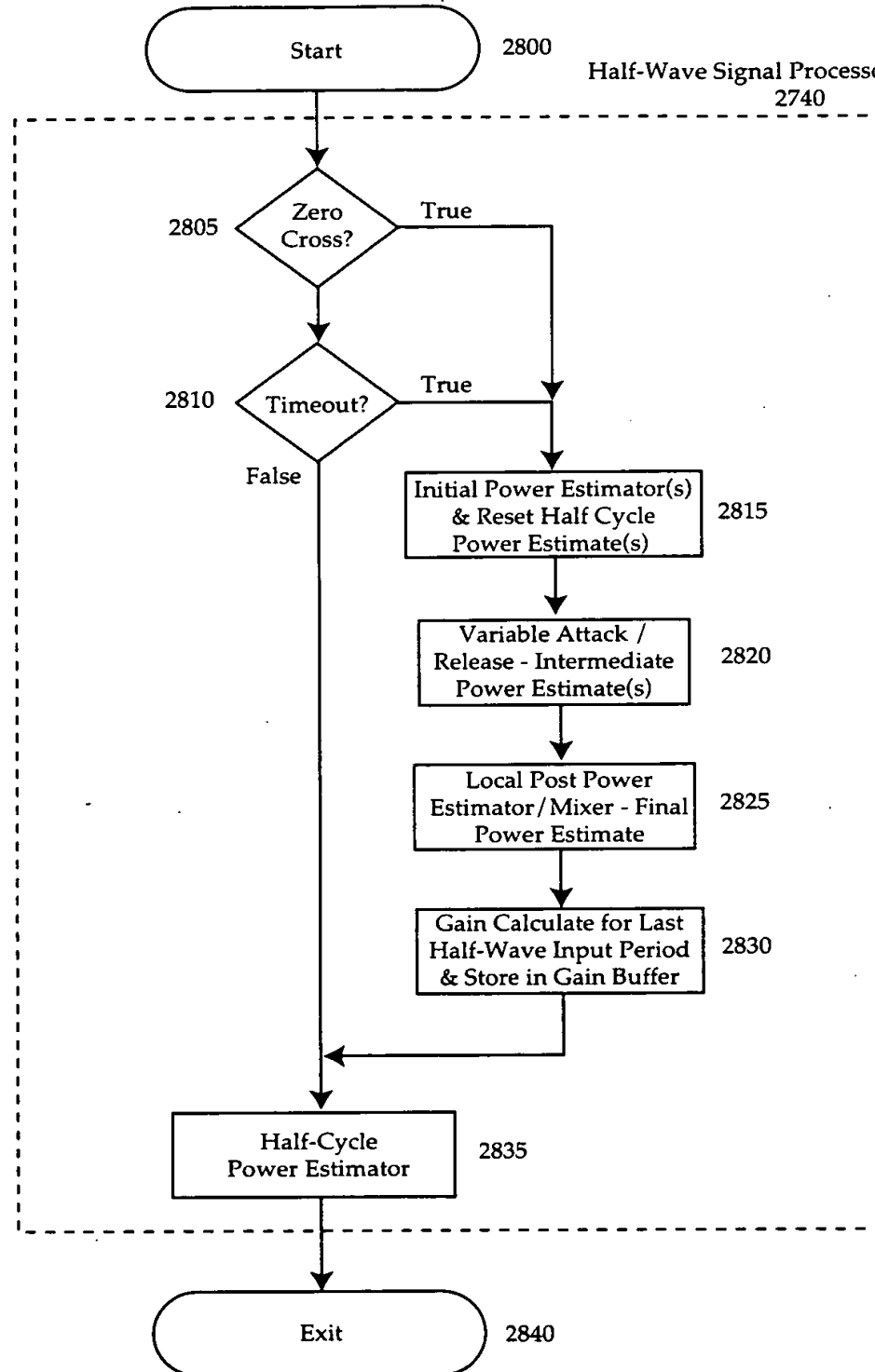


FIG. 28

006277 6927260

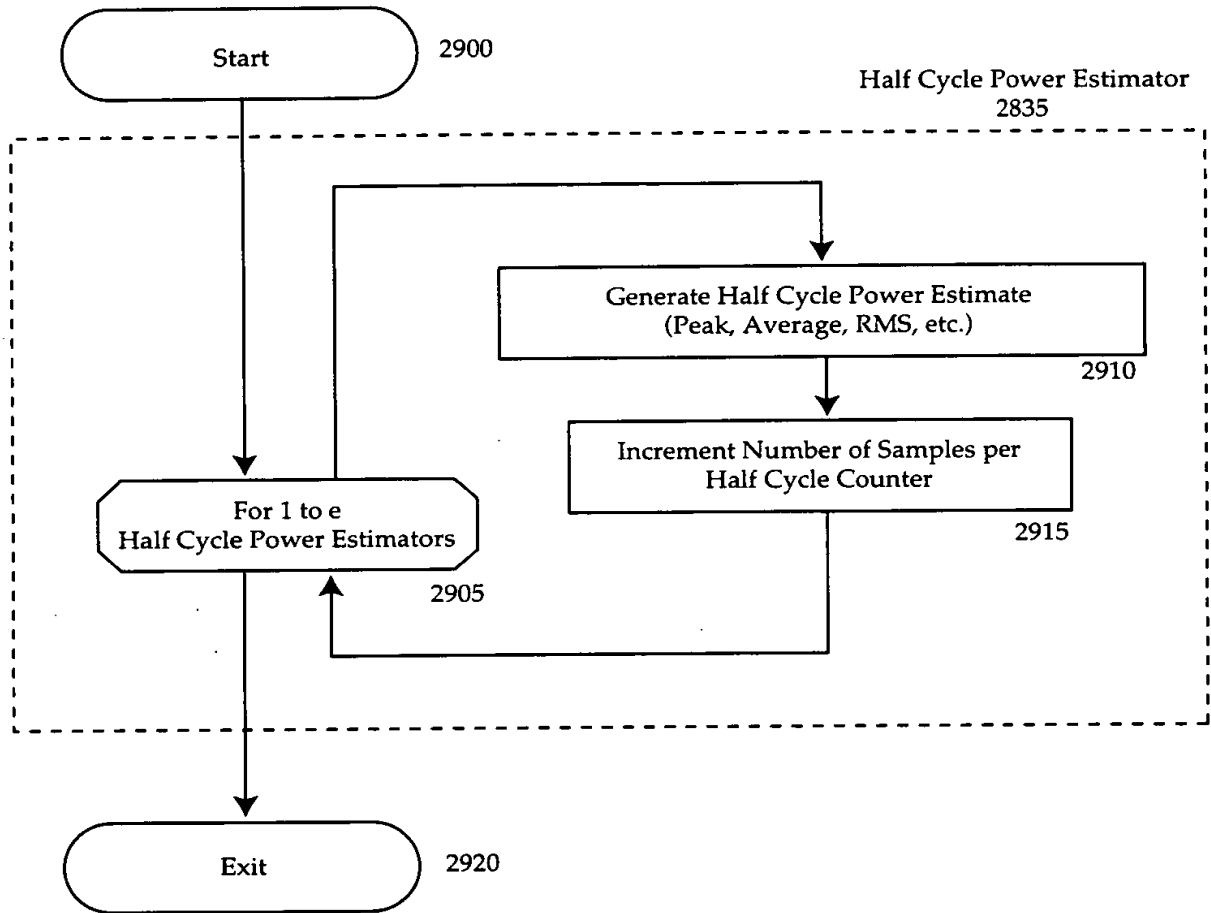


FIG. 29

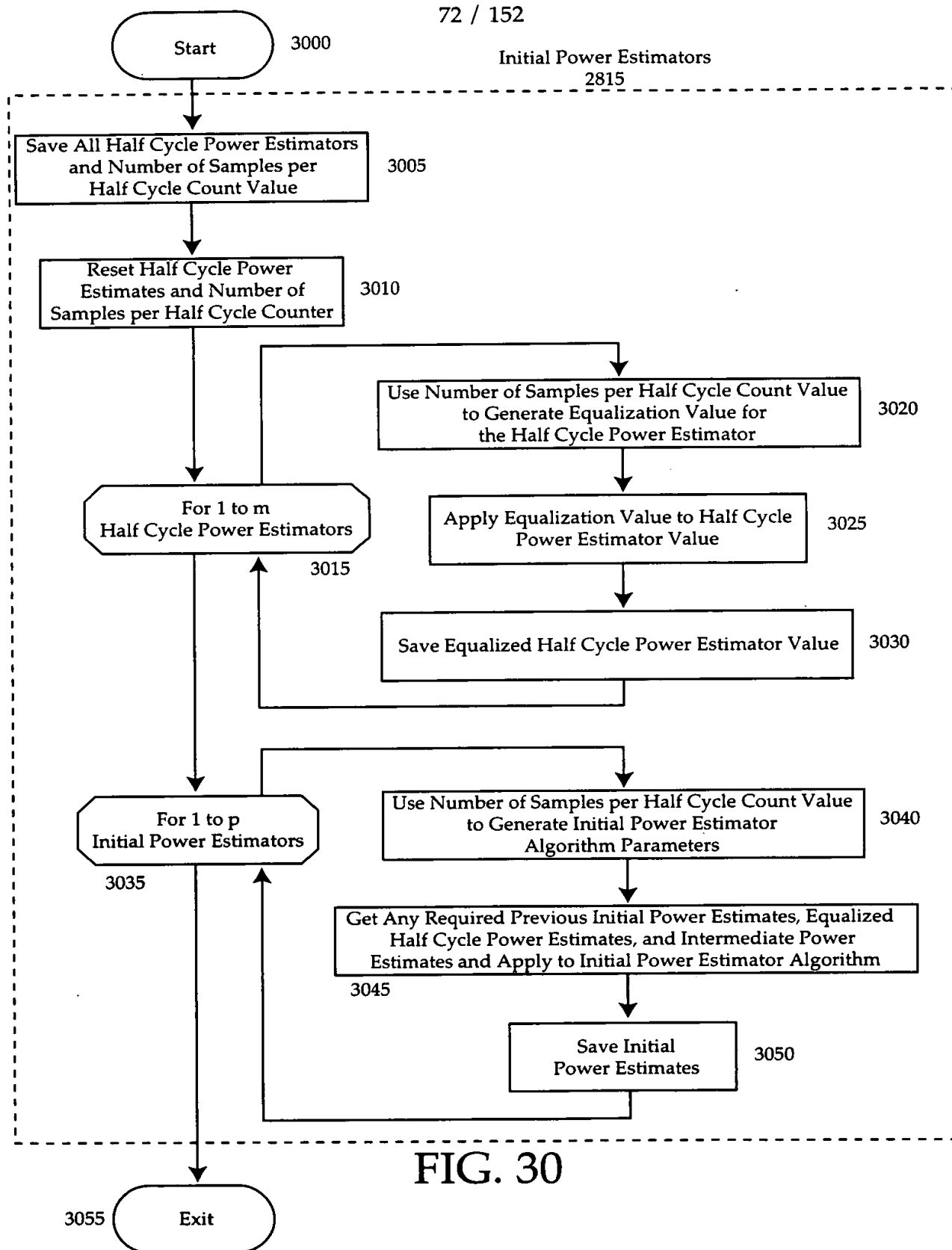
Initial Power Estimators
2815

FIG. 30

006277-6922260

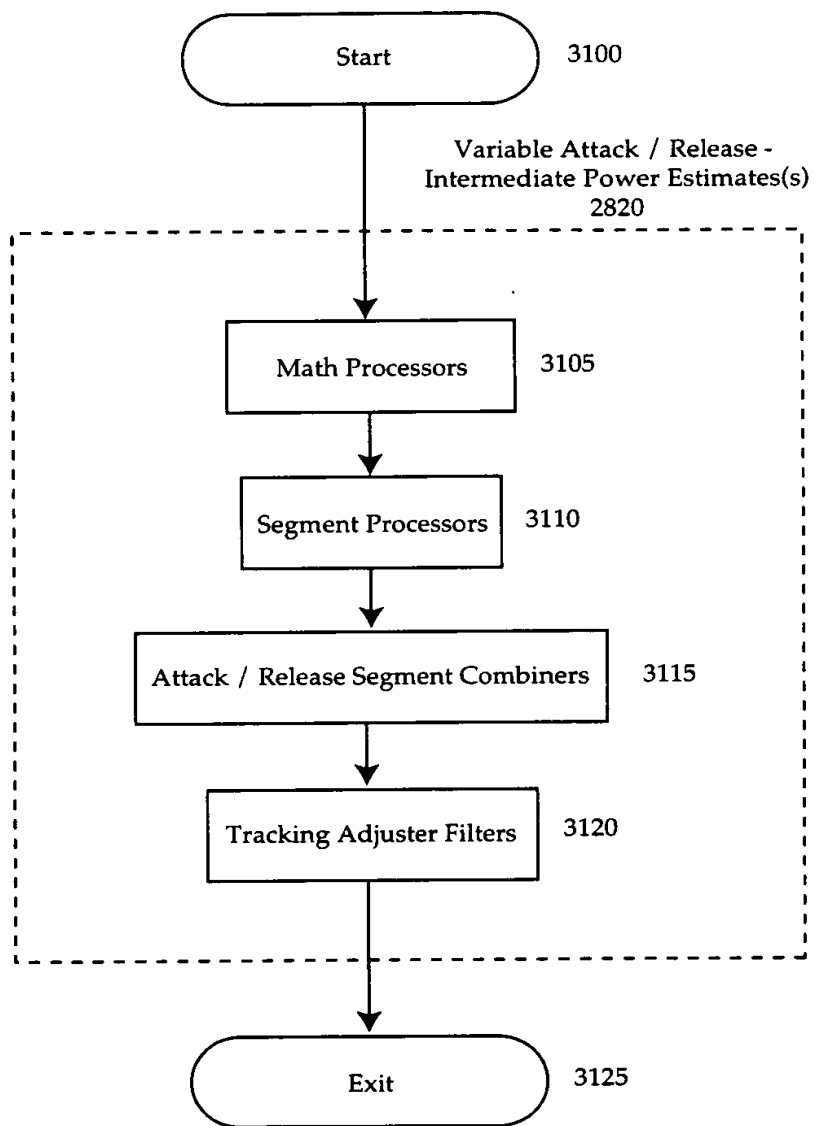


FIG. 31

006211-6922260

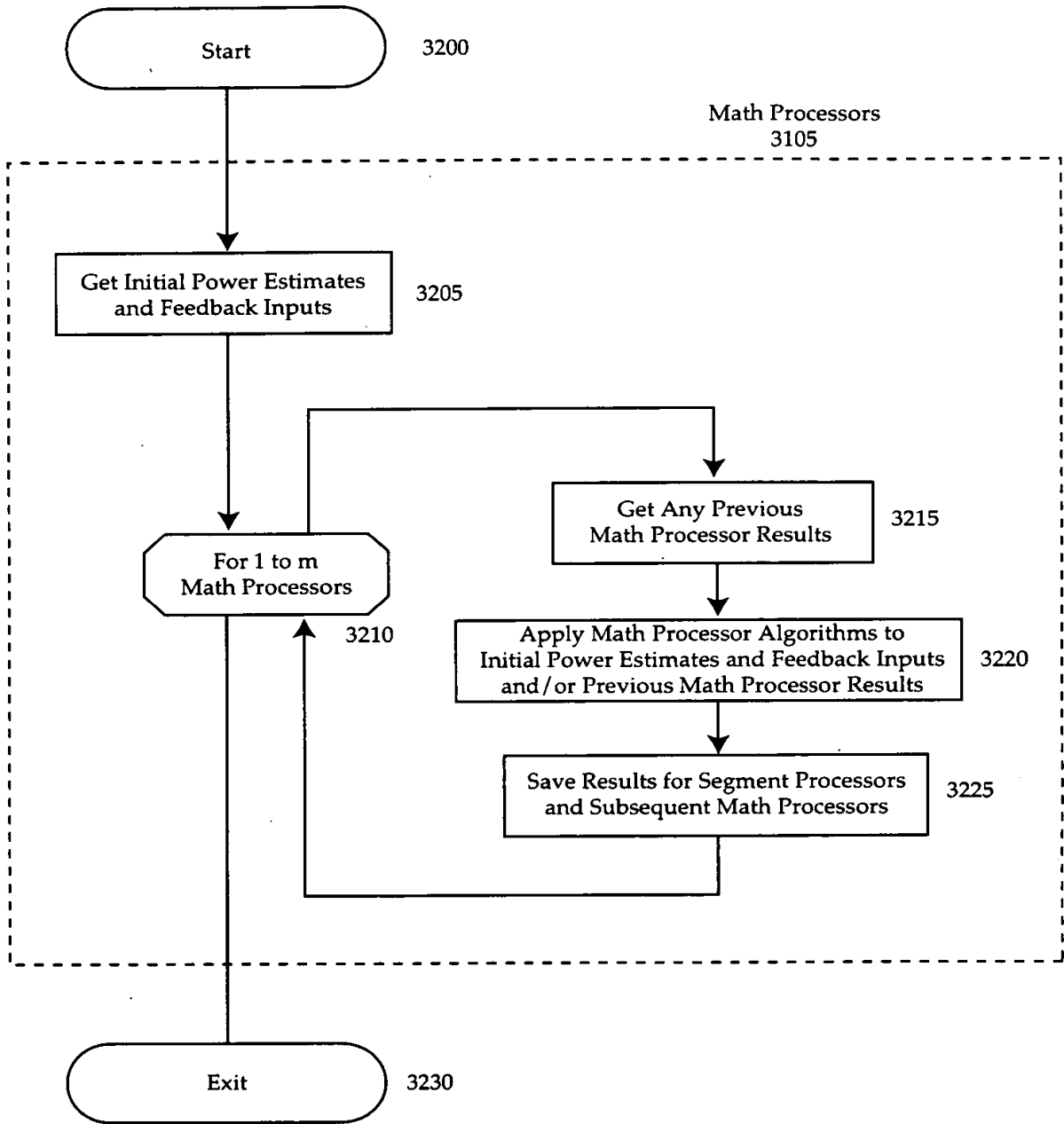


FIG. 32

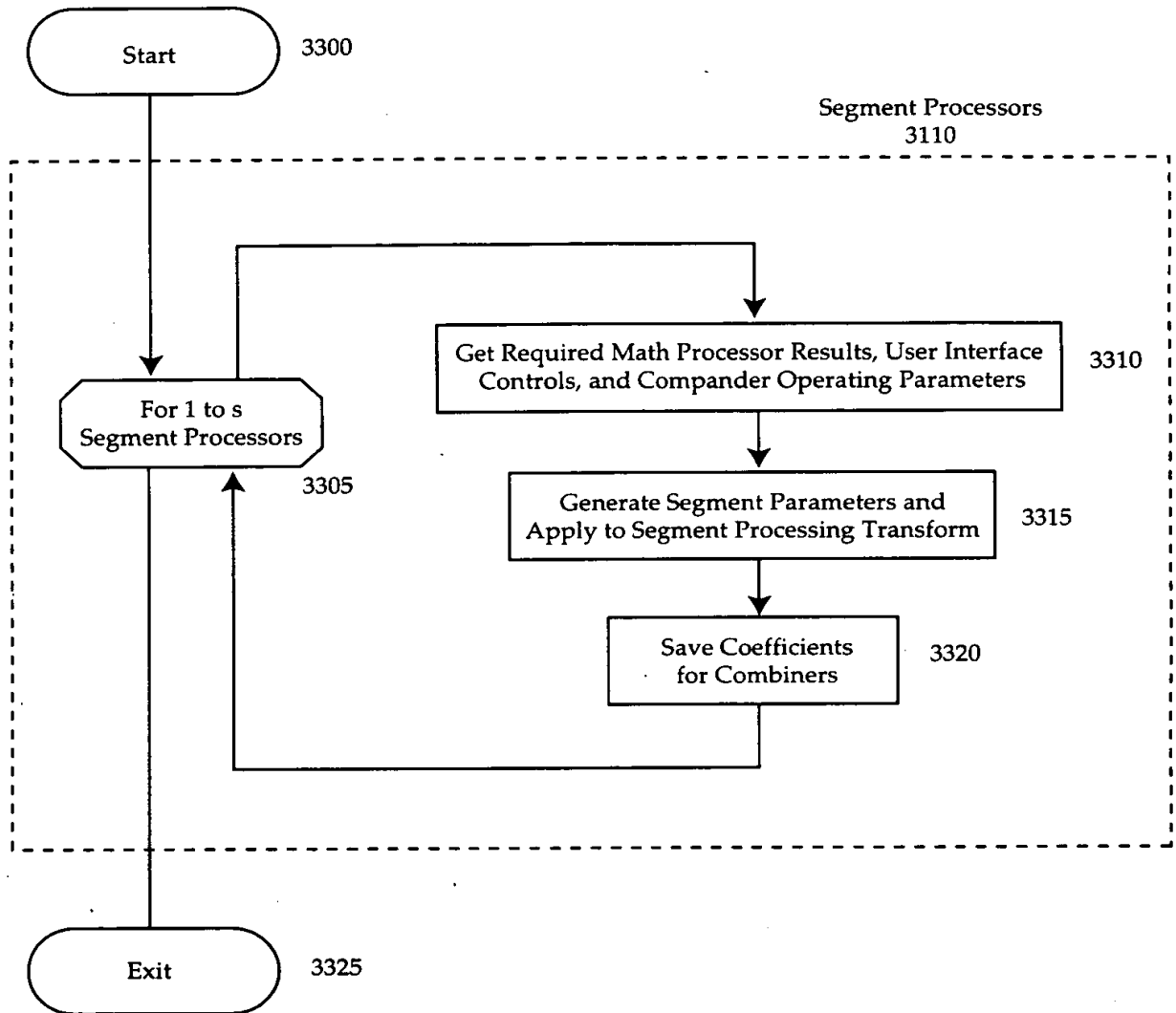


FIG. 33

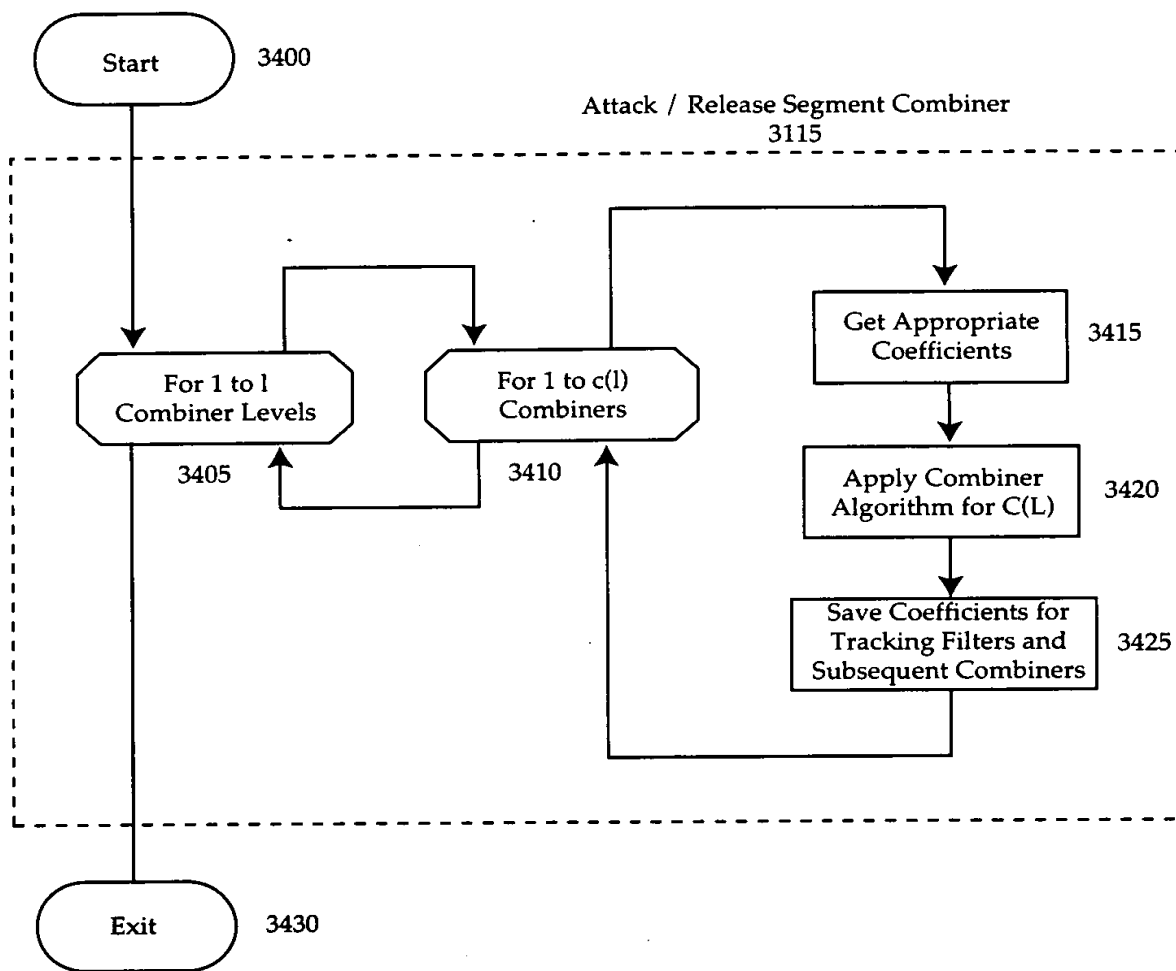


FIG. 34

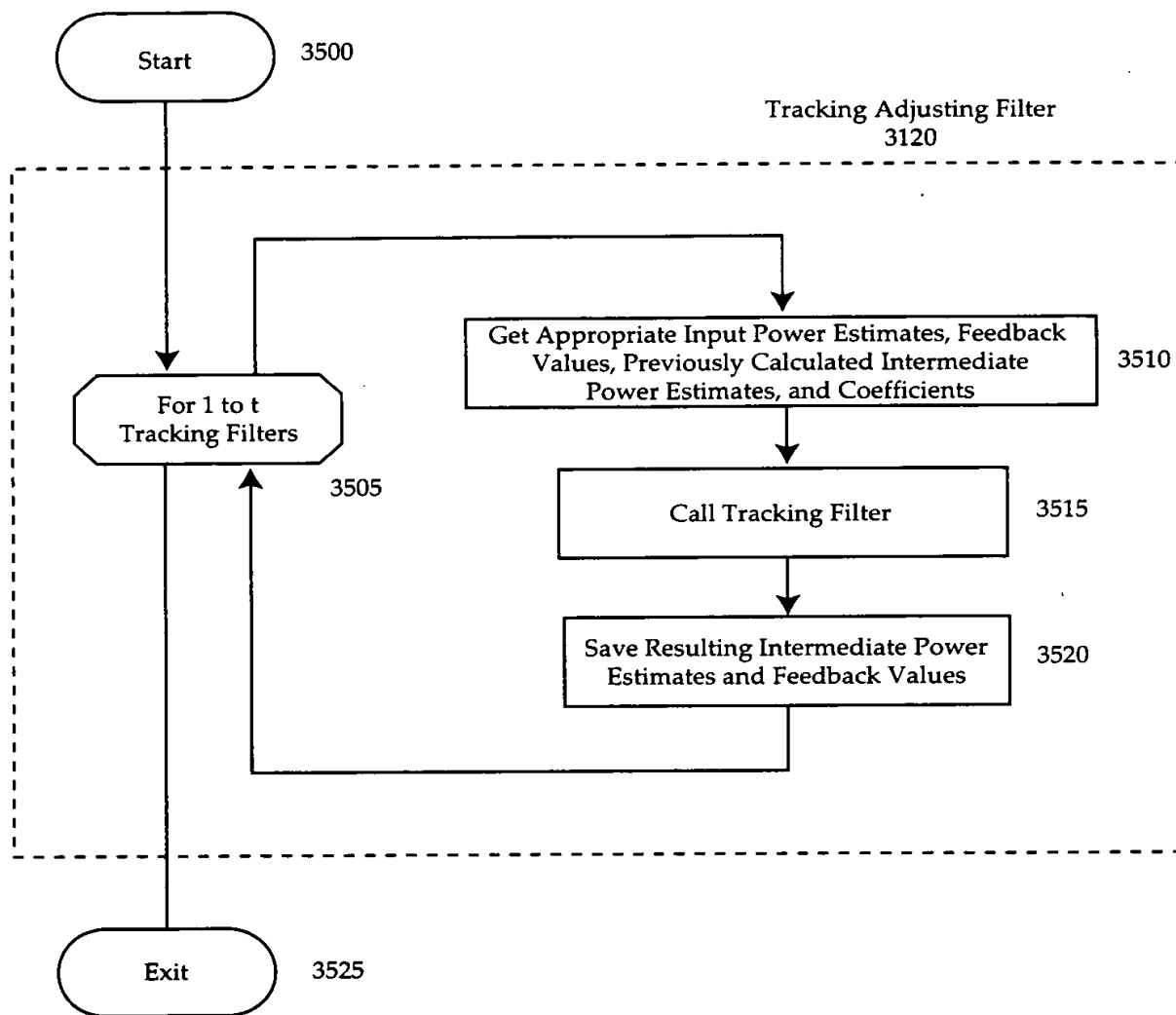


FIG. 35

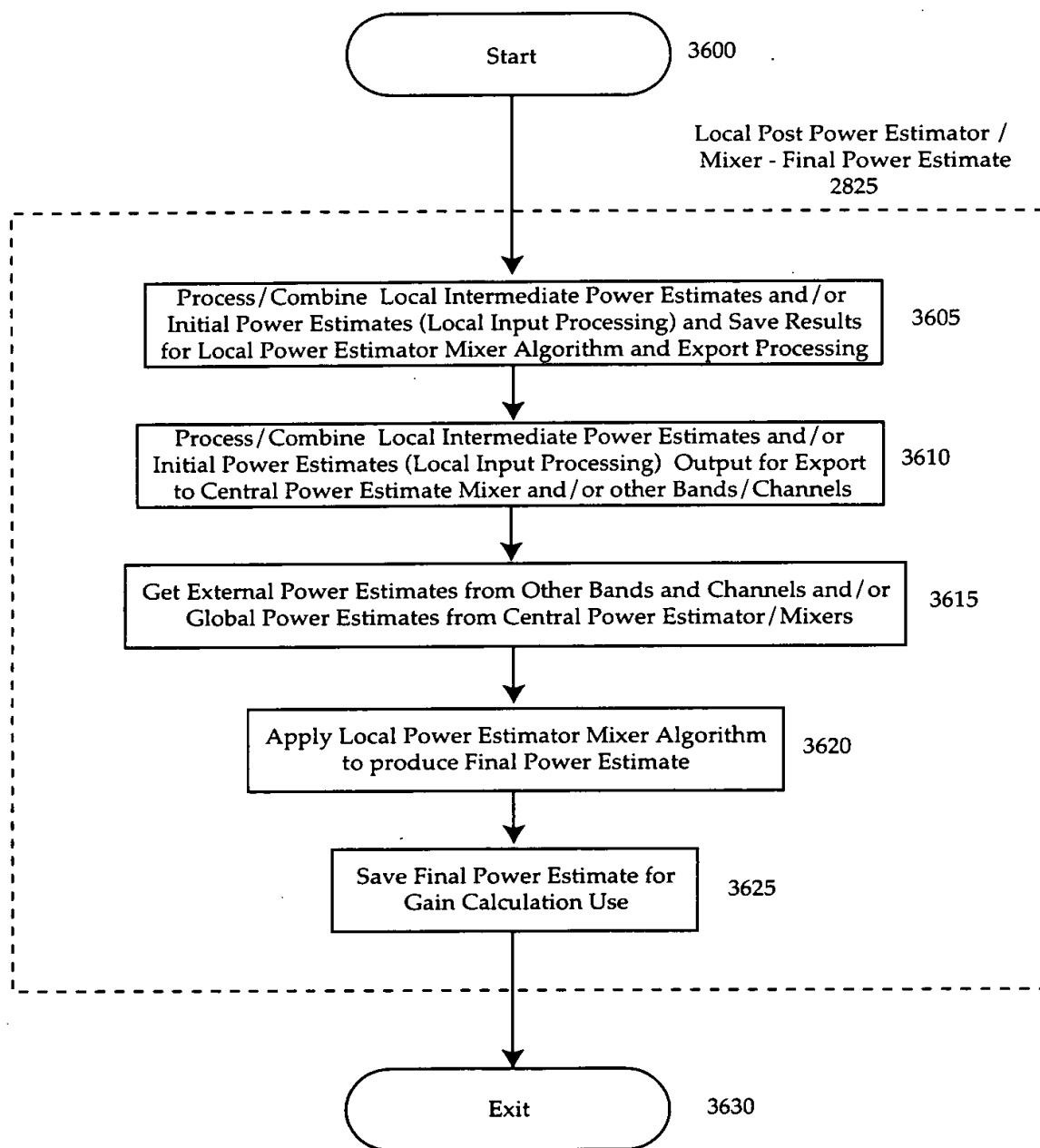


FIG. 36

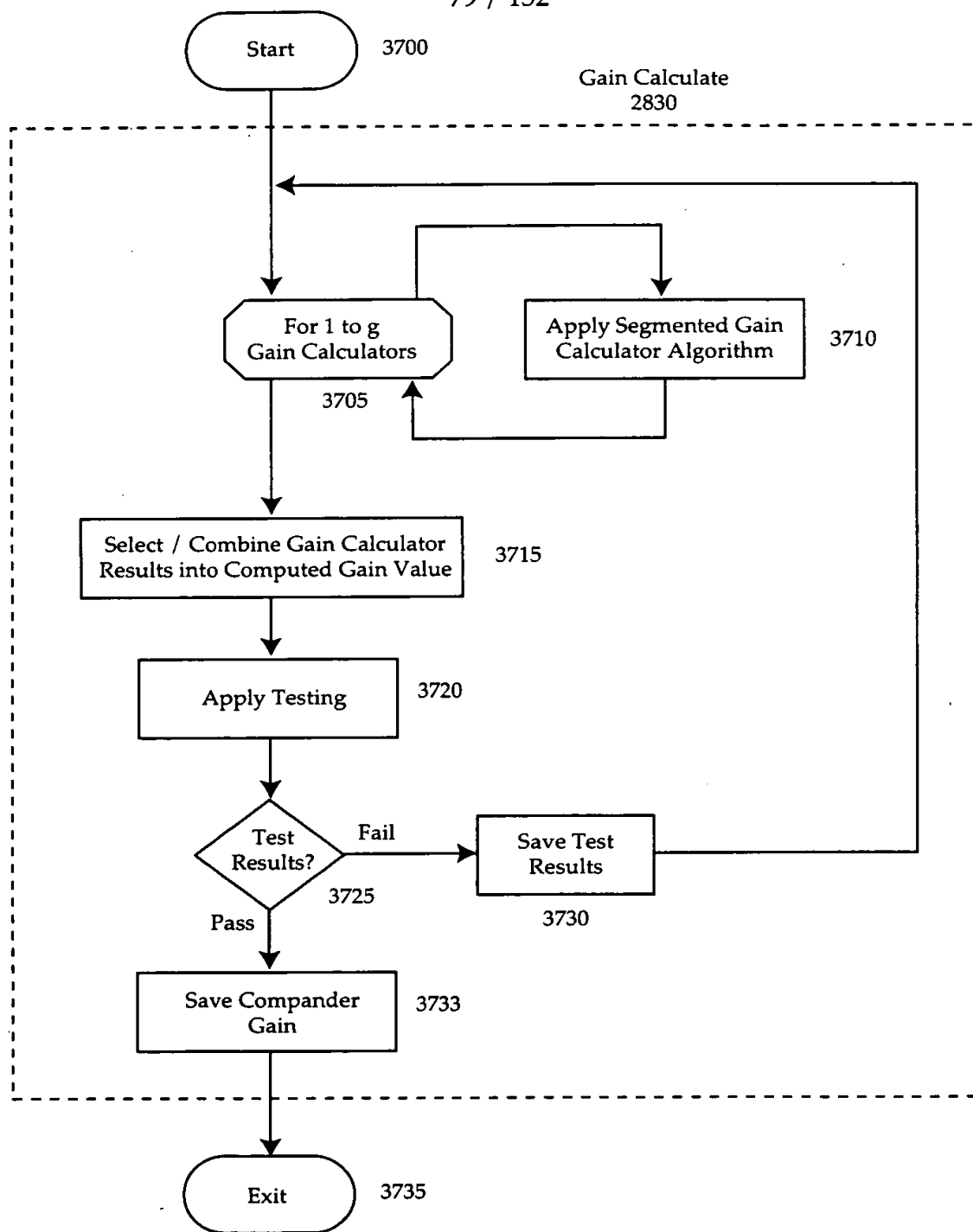


FIG. 37A

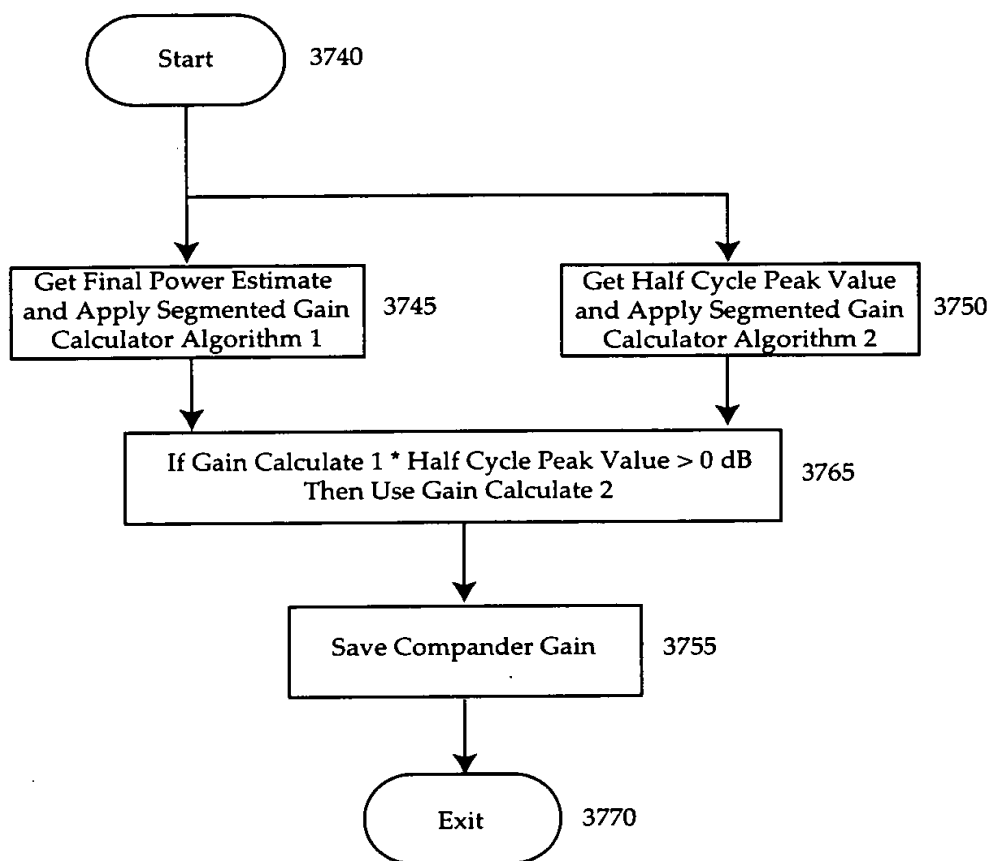


FIG. 37B

006277-6922260

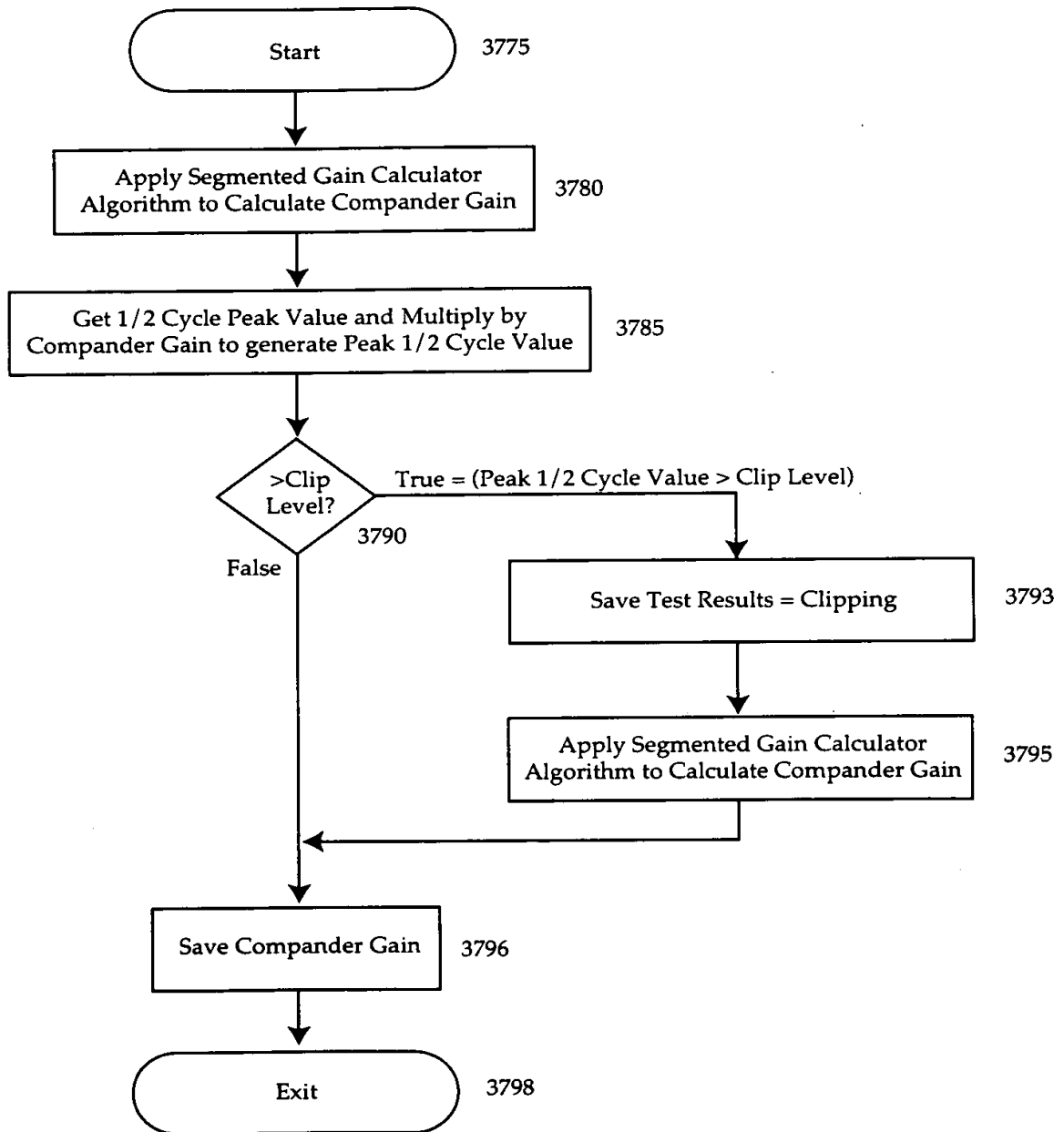


FIG. 37C

3800

Start

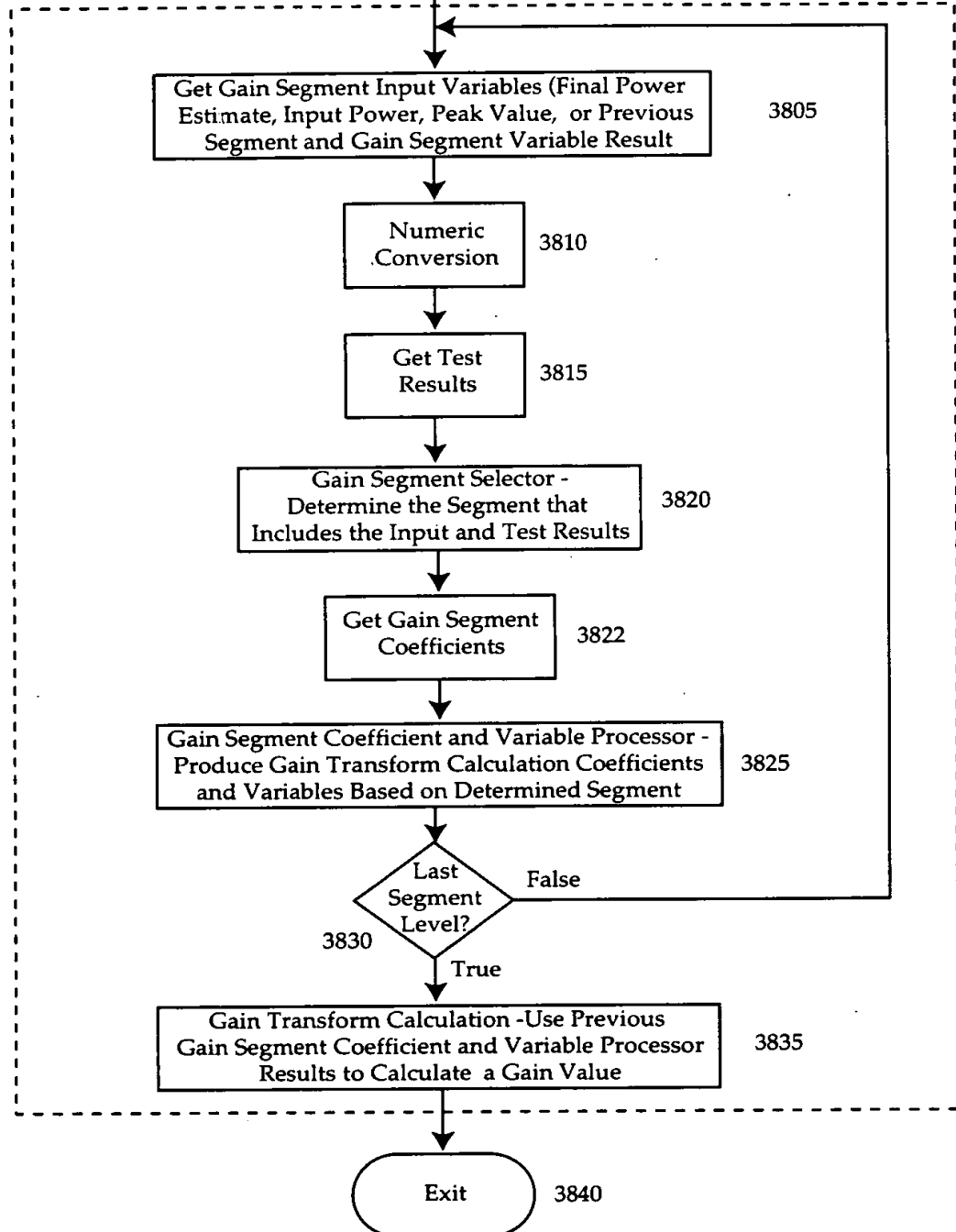
Segmented Gain Calculate Algorithm
3710, 3755, 3760, 3780, 3795

FIG. 38

006211" 6922260

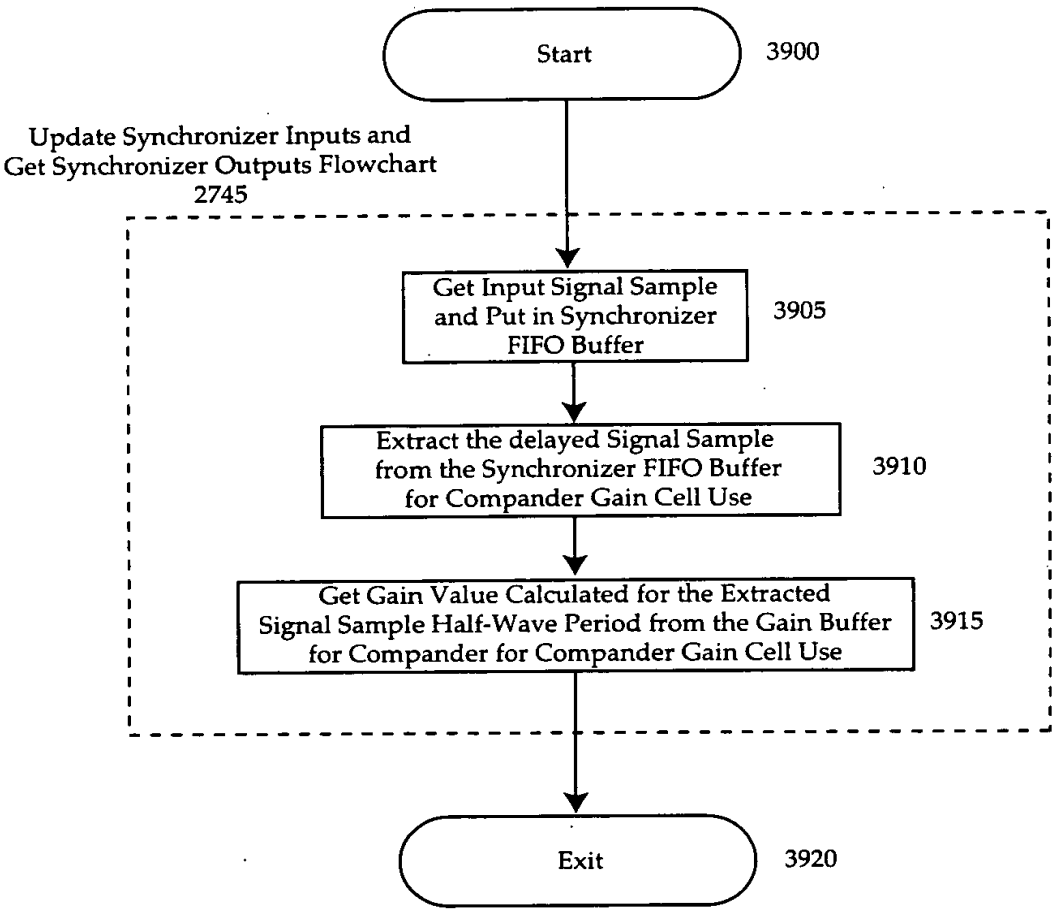
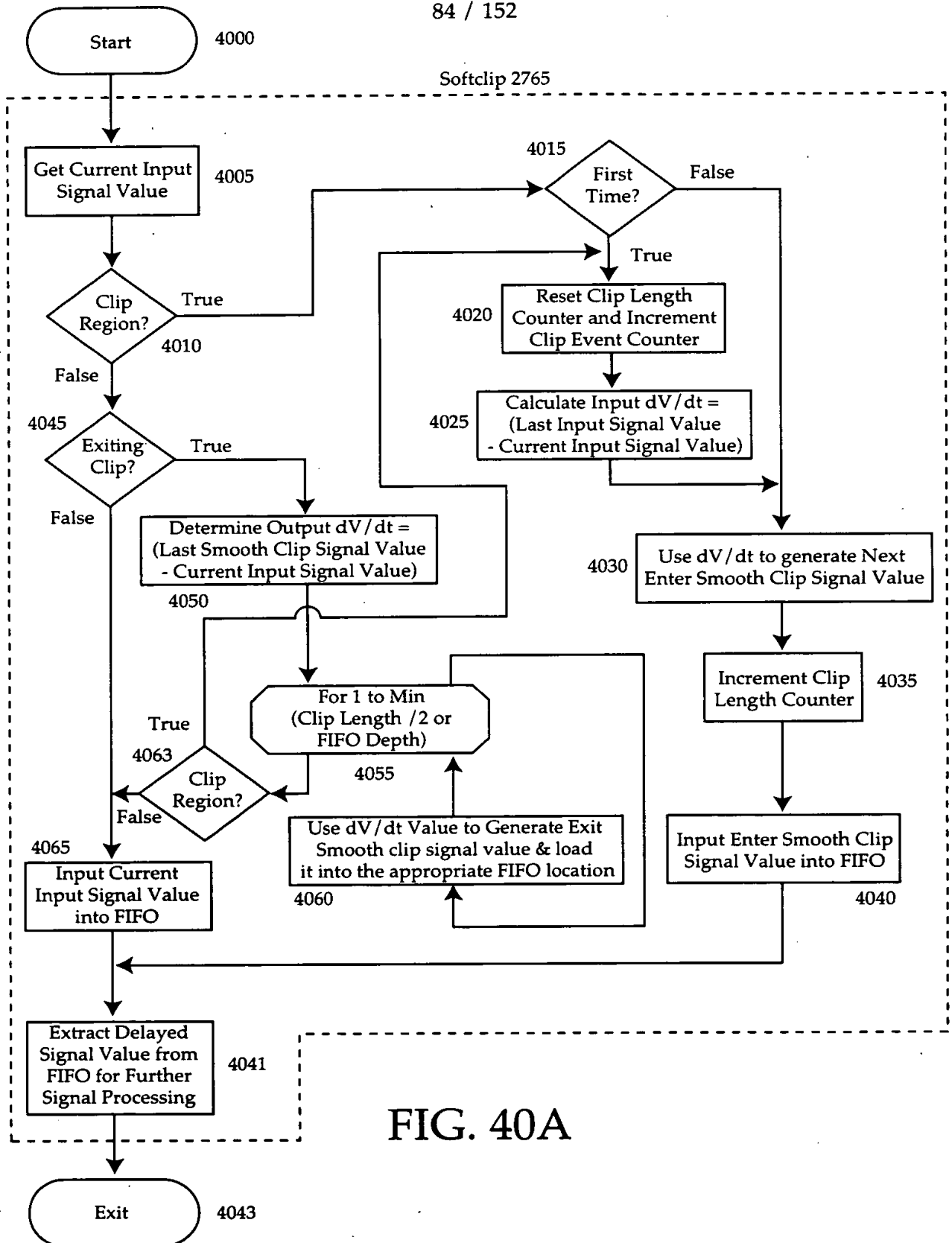


FIG. 39

006277 6927260



006211" 69242460

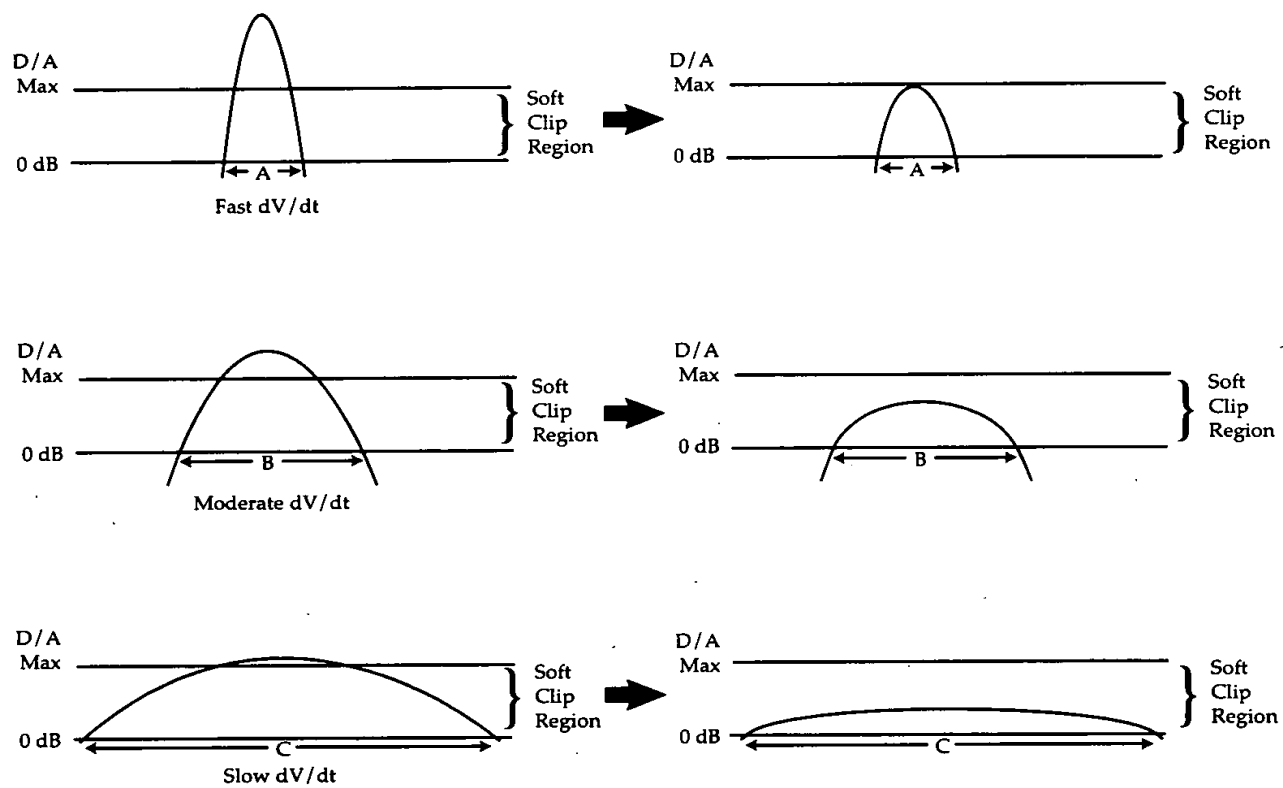


FIG. 40B

006211-6922260

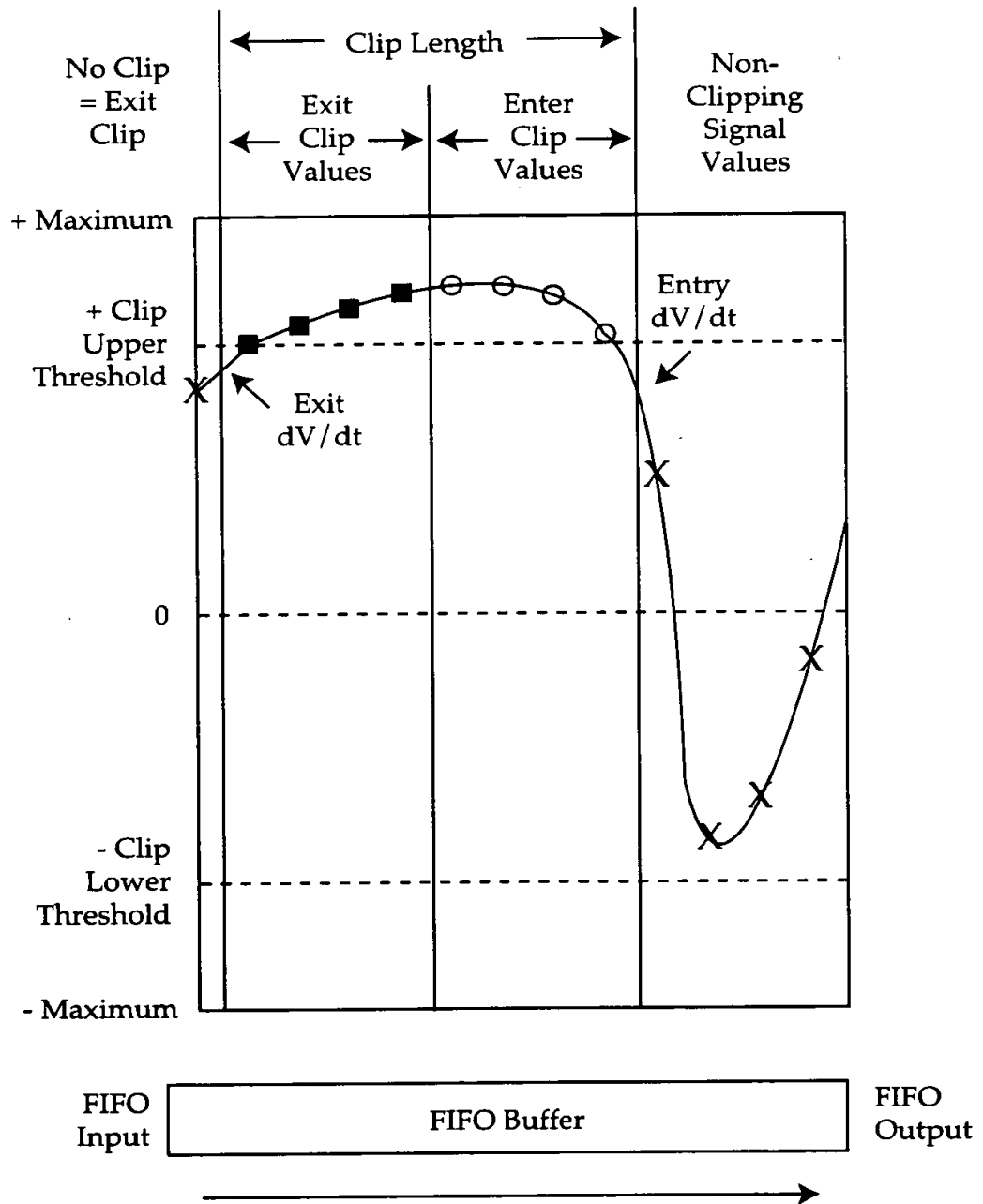


FIG. 40C

006211-6924260

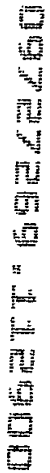


FIG. 41A

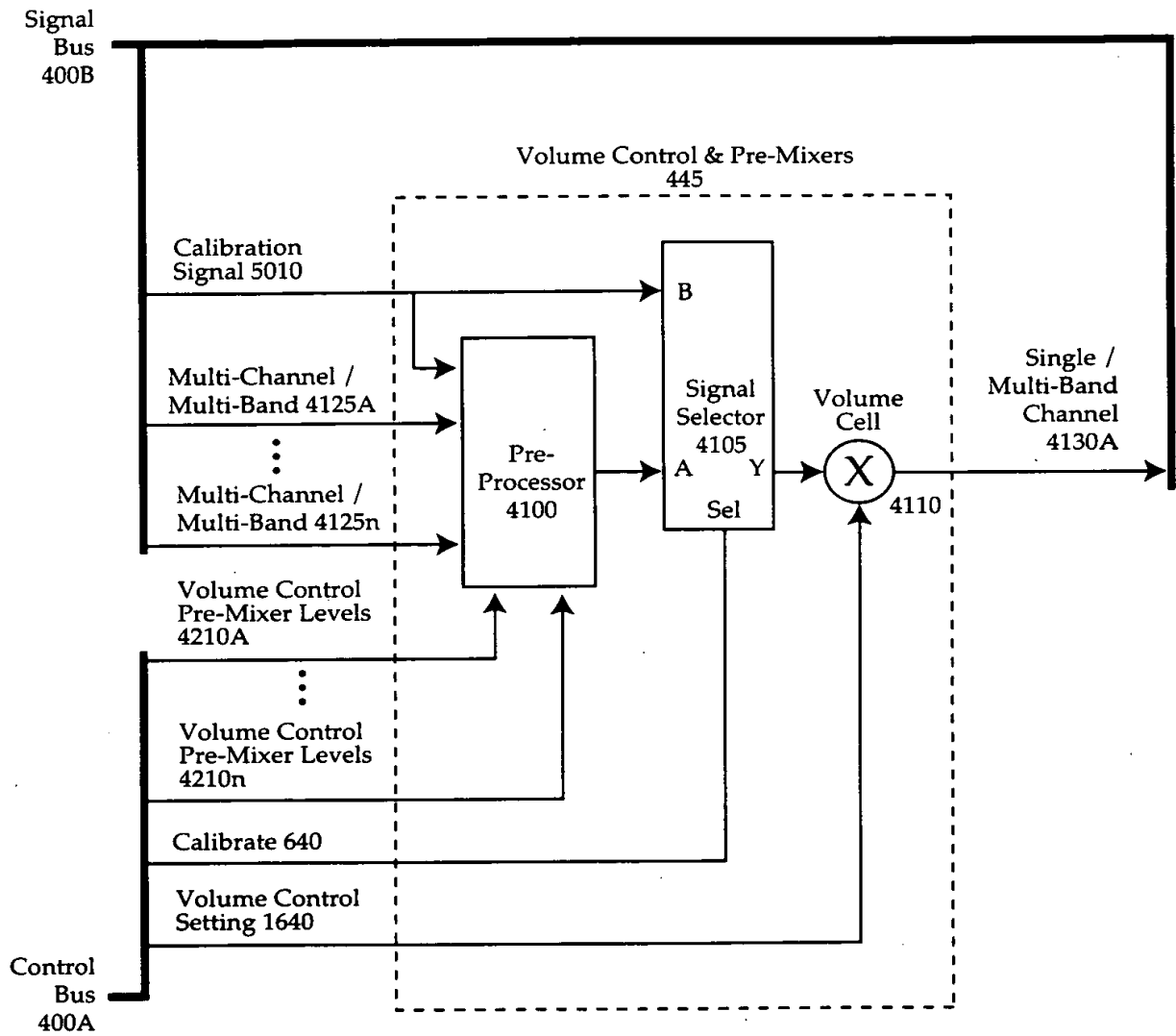


FIG. 41B

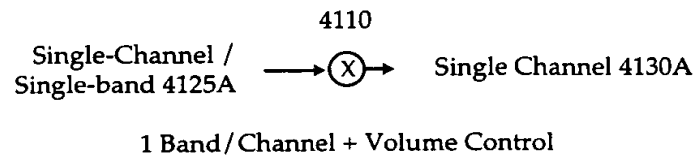


FIG. 42A

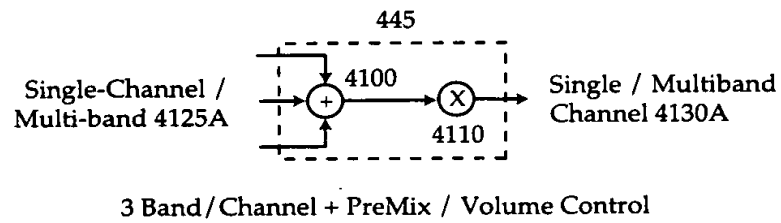
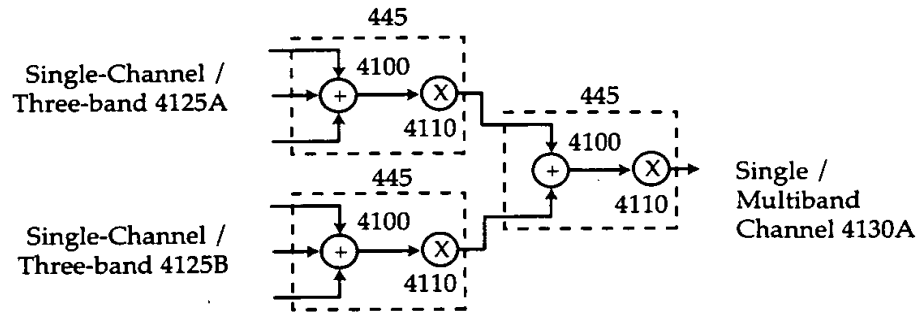


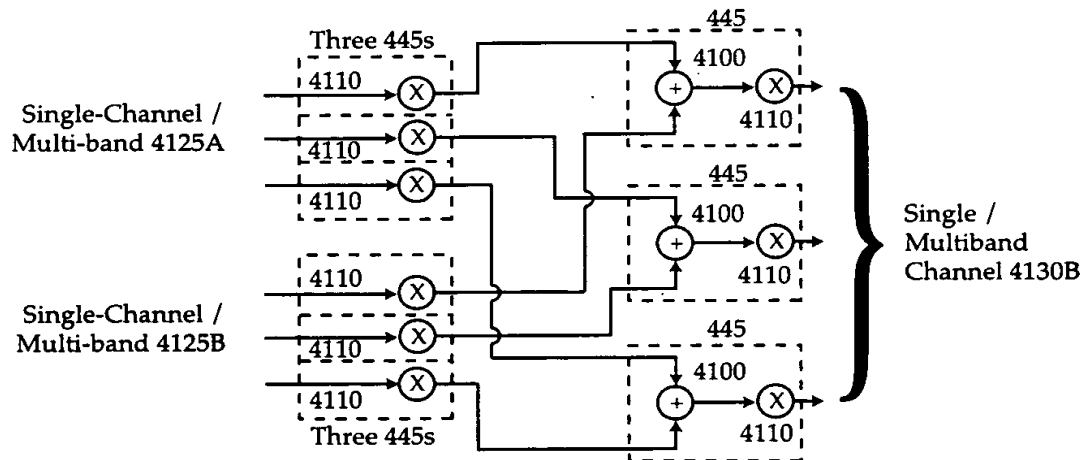
FIG. 42B

006211 6922260



3 Band/Channel + Pre-Mix / Volume Control > Premix Volume Control
 3 Band/Channel + Pre-Mix / Volume Control

FIG. 42C



3 Band/Channel + 3 Volume Control > 3 Premix Volume Control
 3 Band/Channel + 3 Volume Control

FIG. 42D

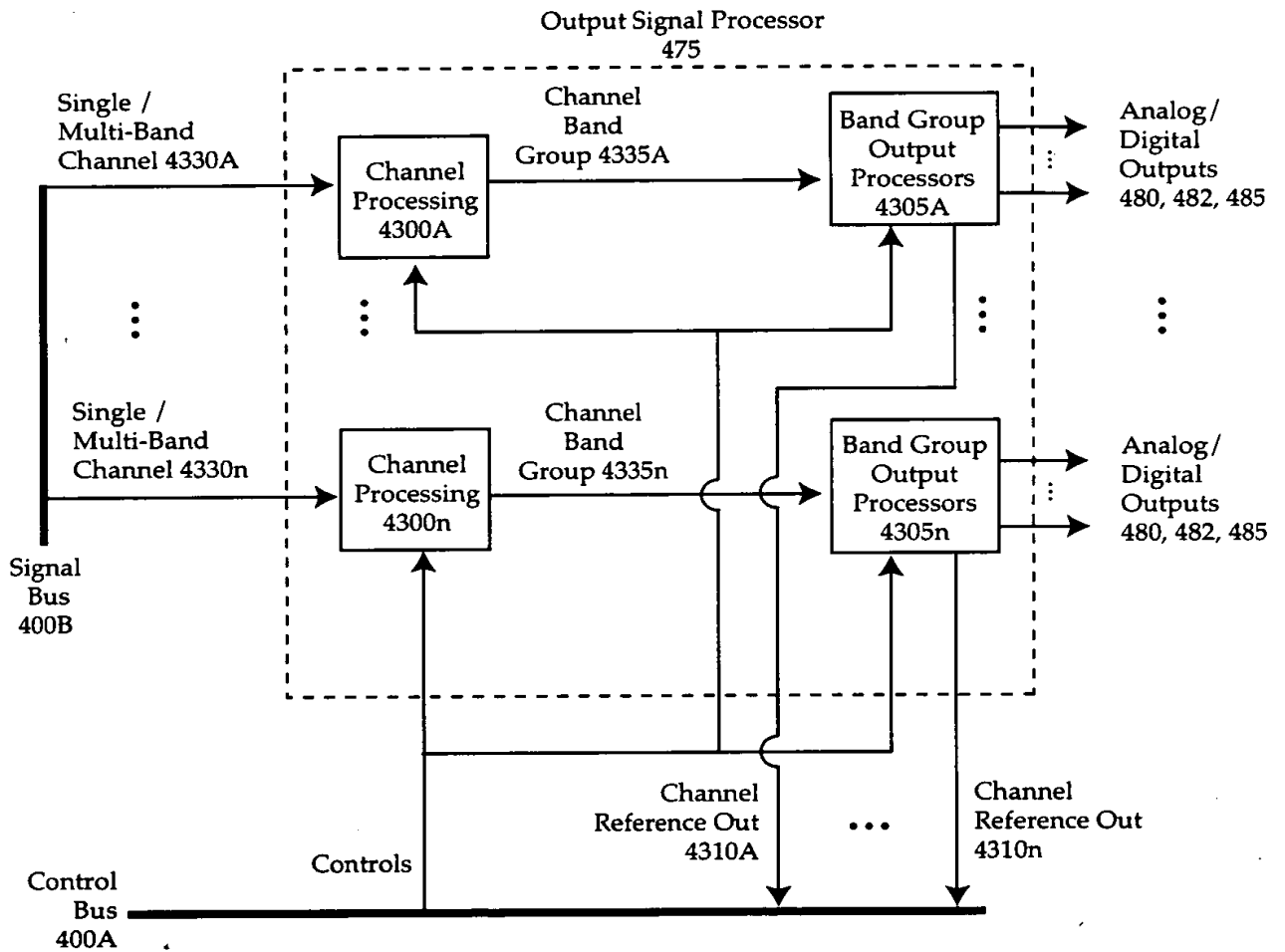


FIG. 43A

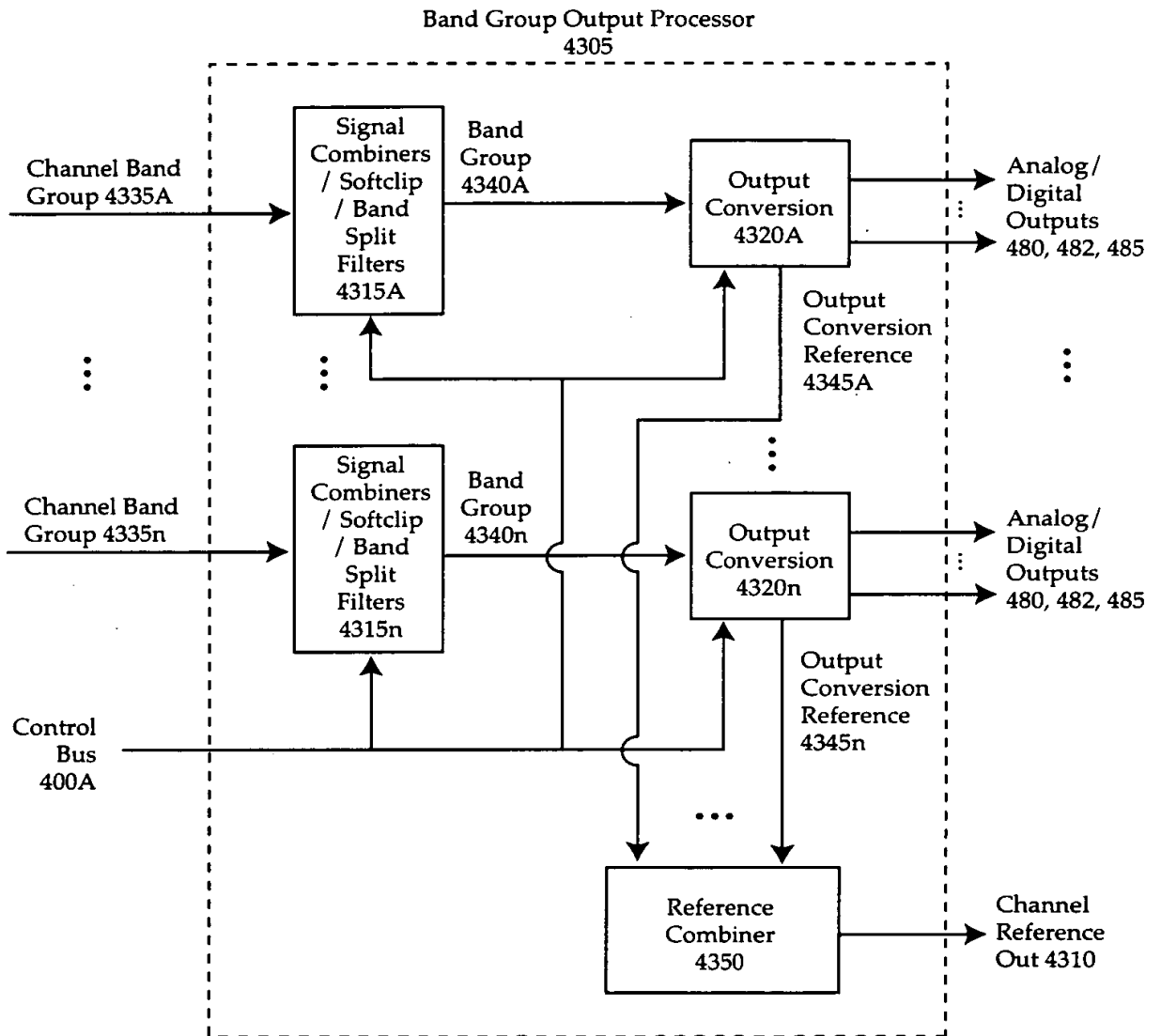


FIG. 43B

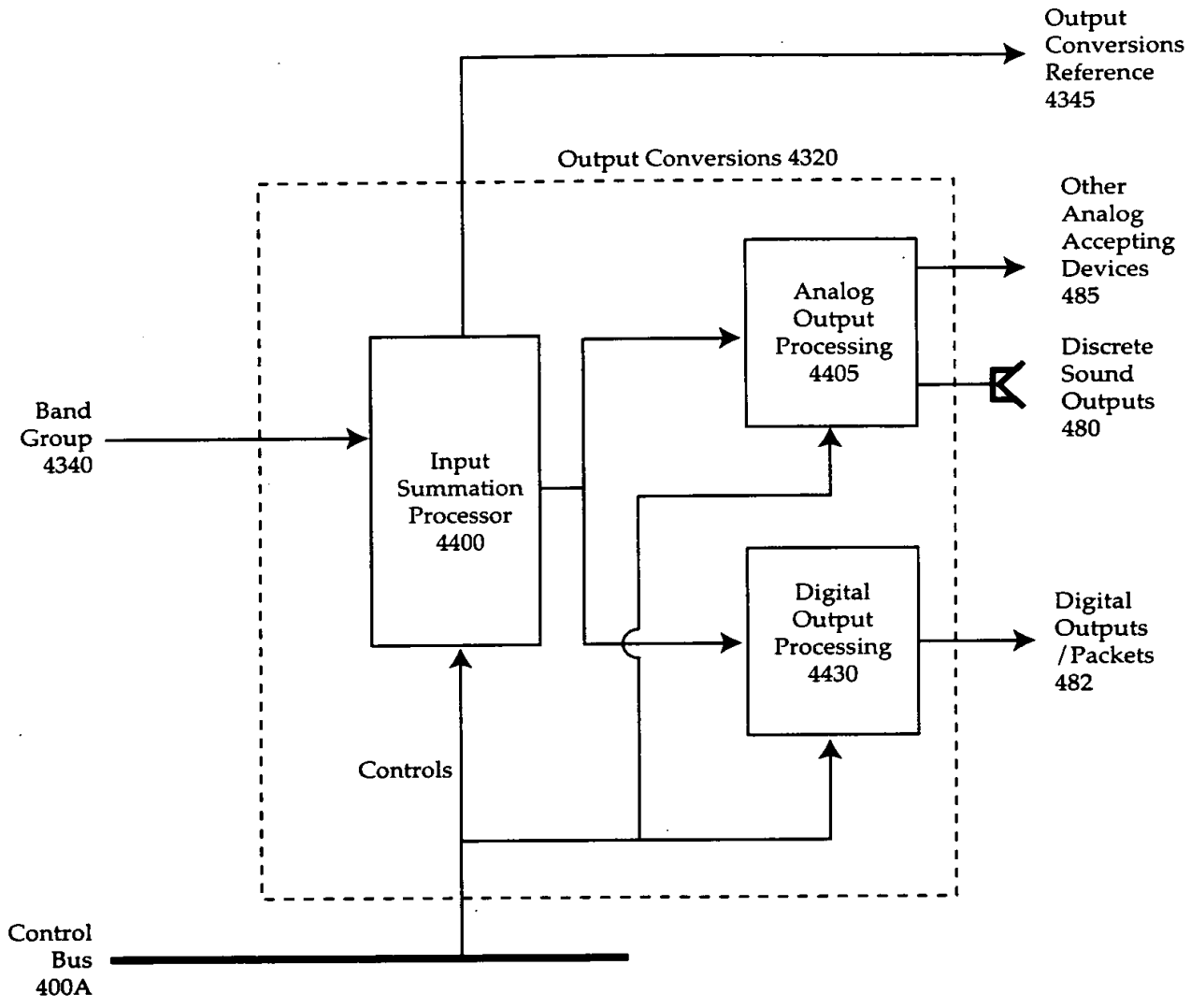


FIG. 44

00627T 6927260

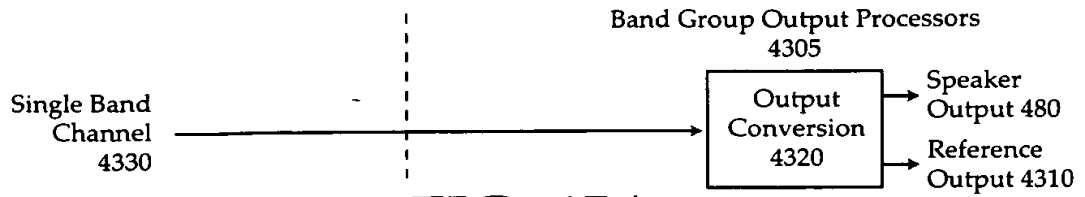


FIG. 45A

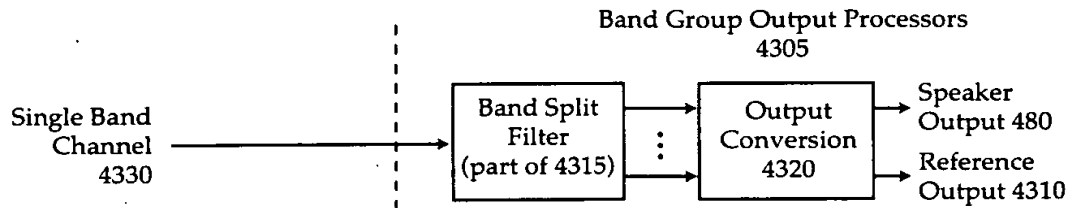


FIG. 45B

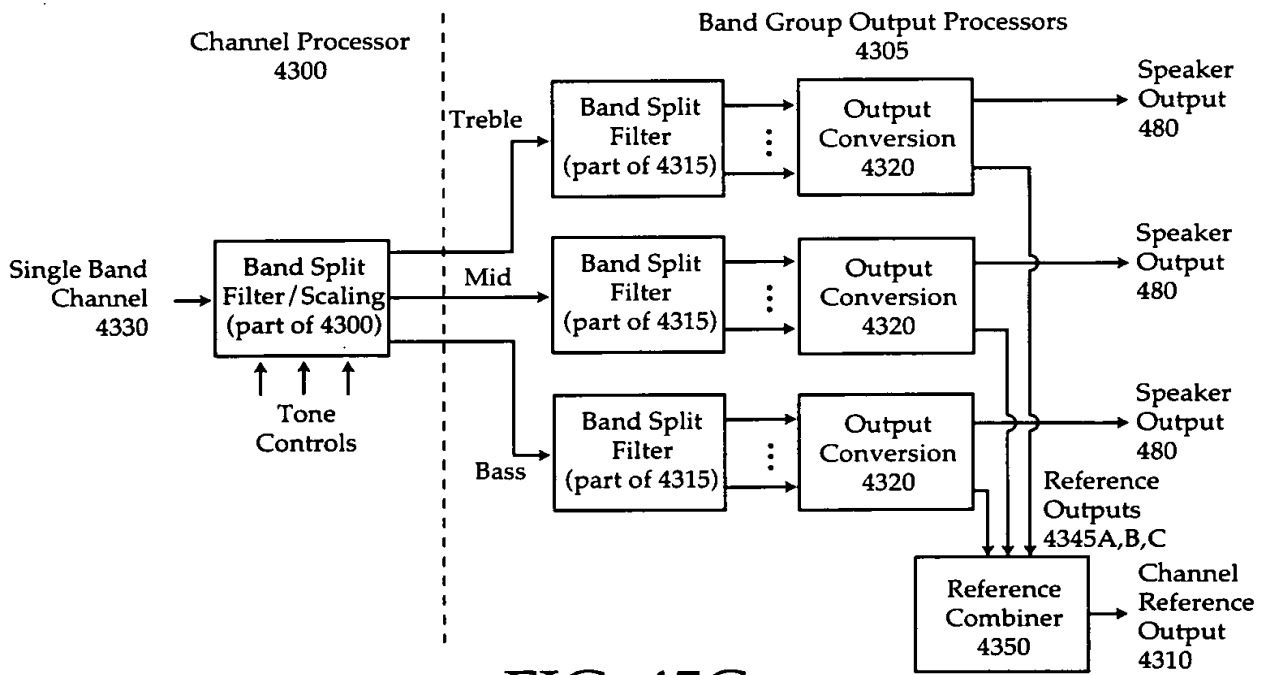


FIG. 45C

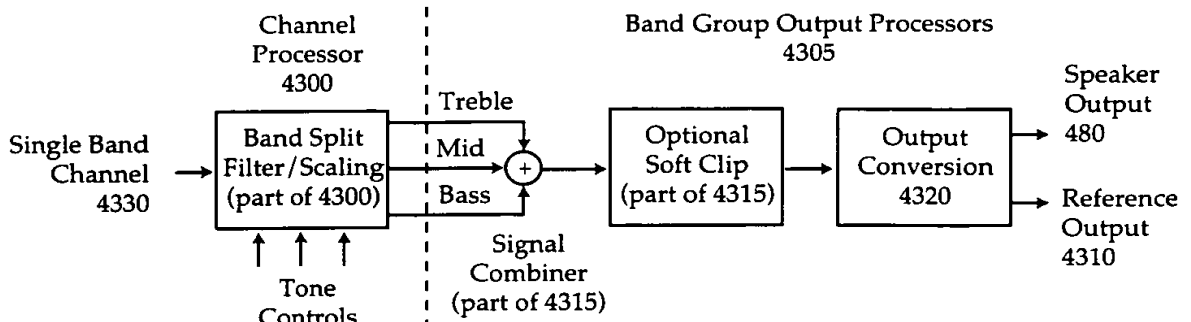


FIG. 45D

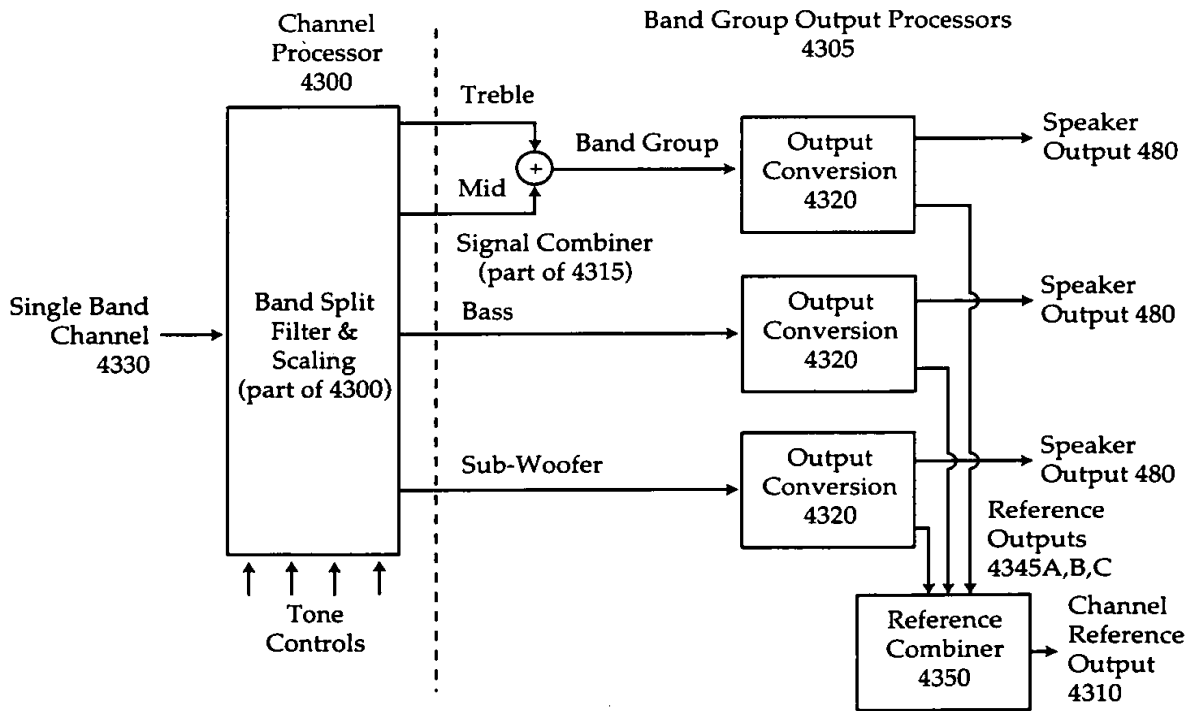


FIG. 45E

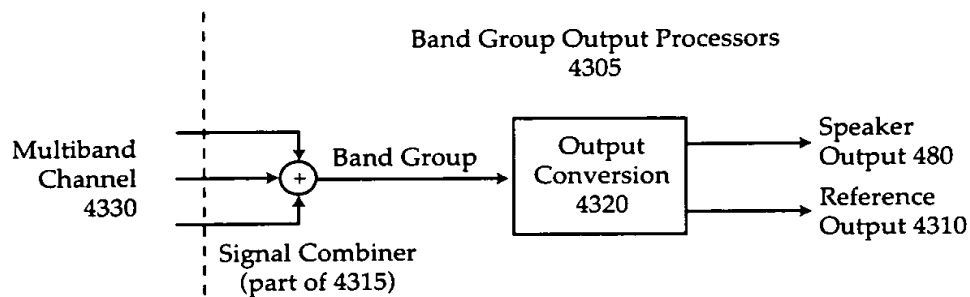


FIG. 45F

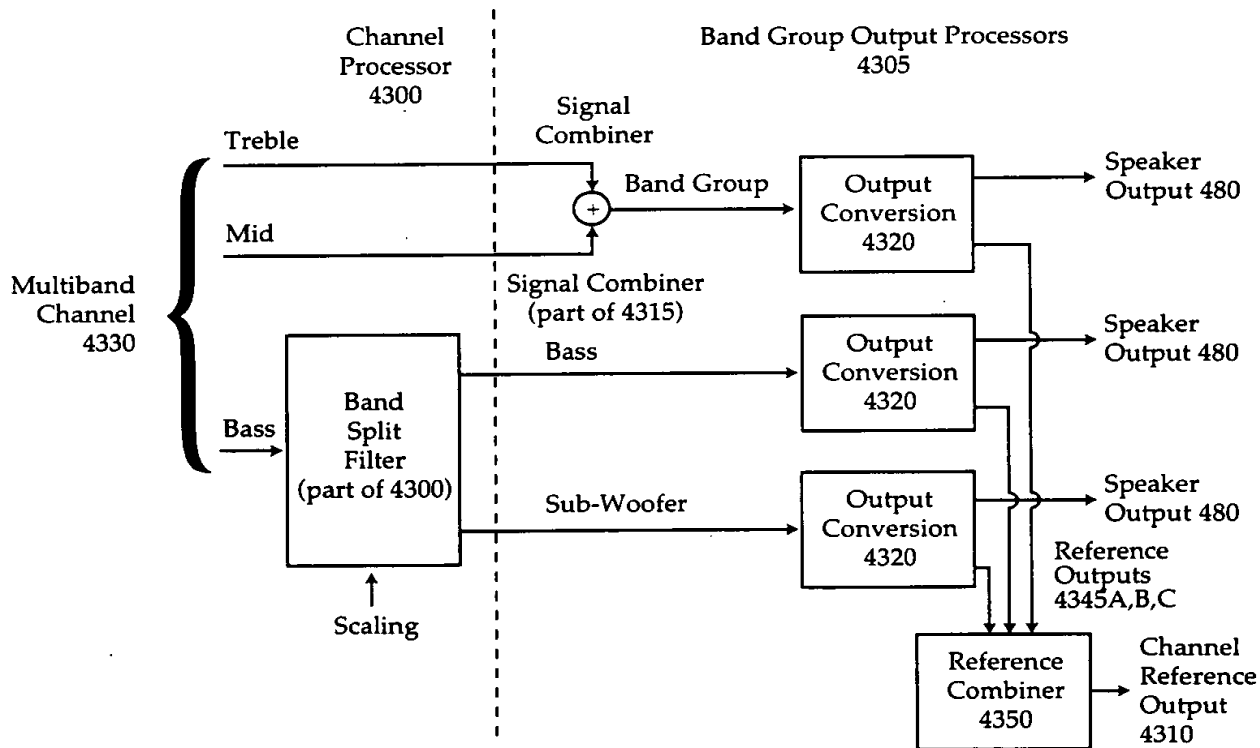


FIG. 45G

006211 6922260

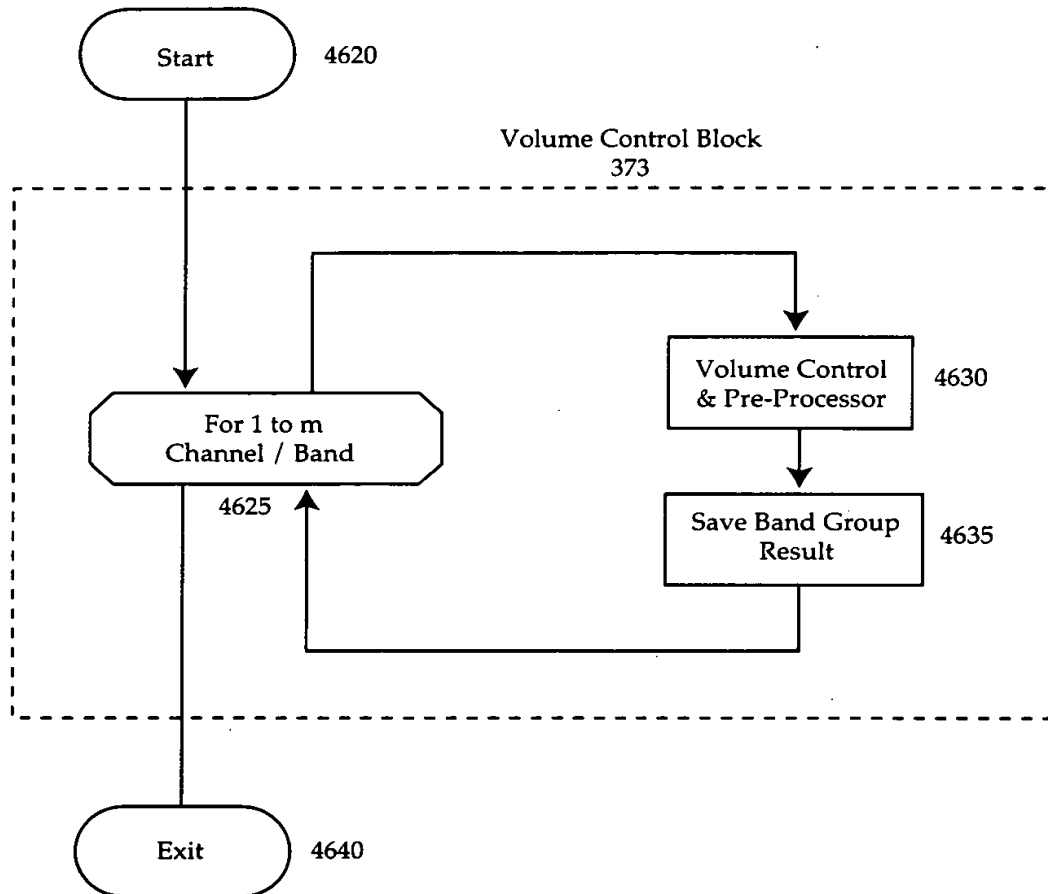


FIG. 46

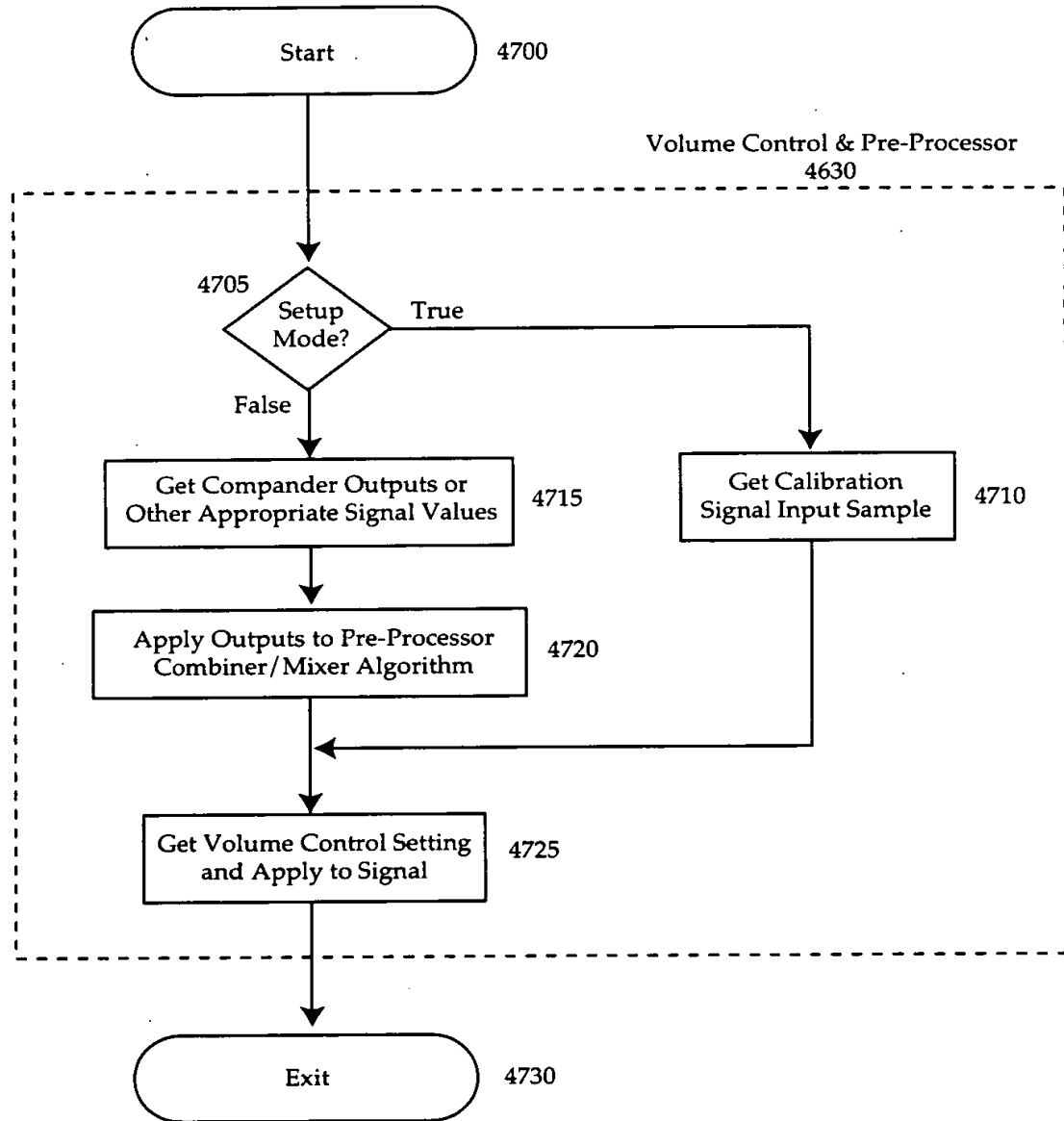


FIG. 47

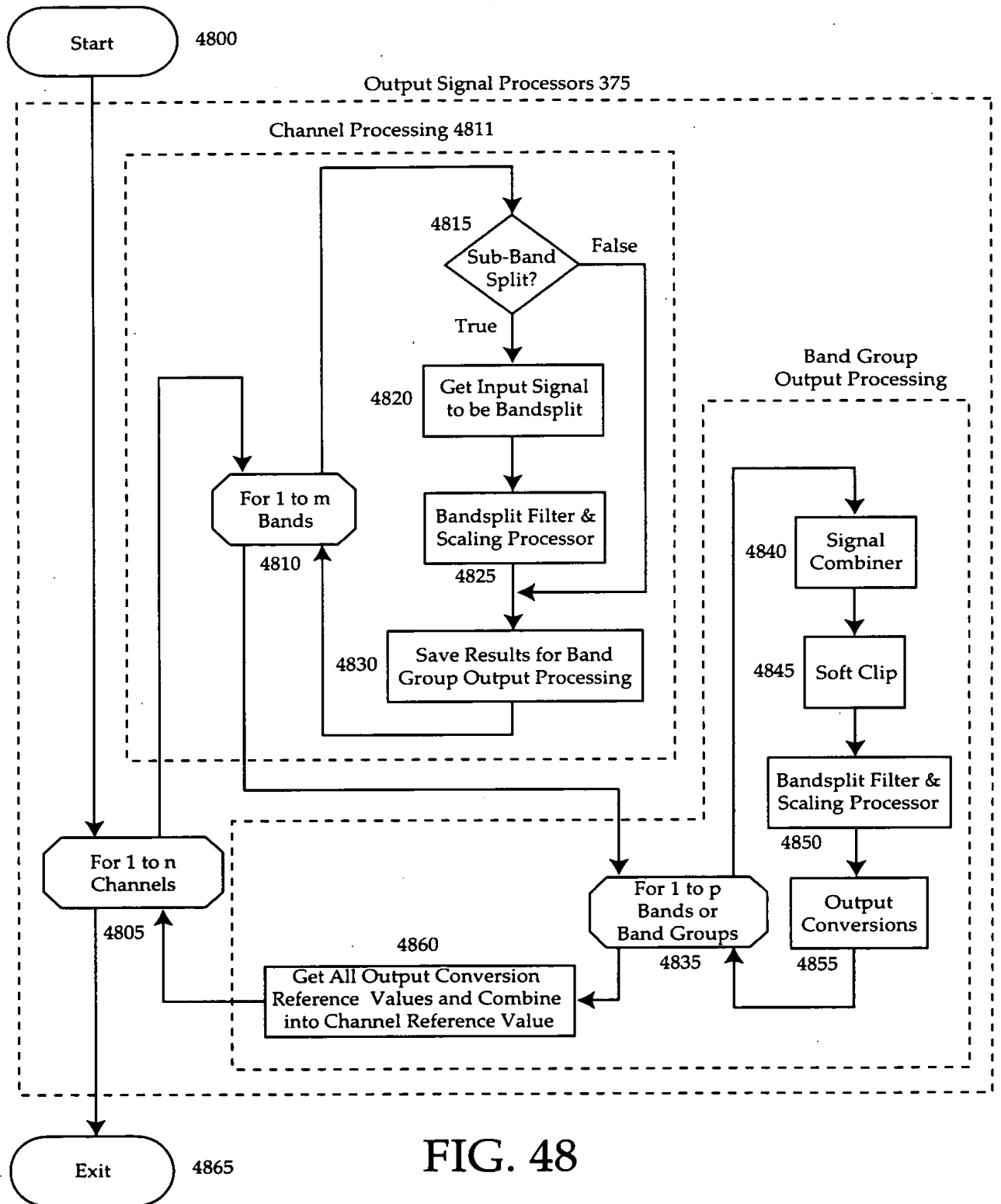


FIG. 48

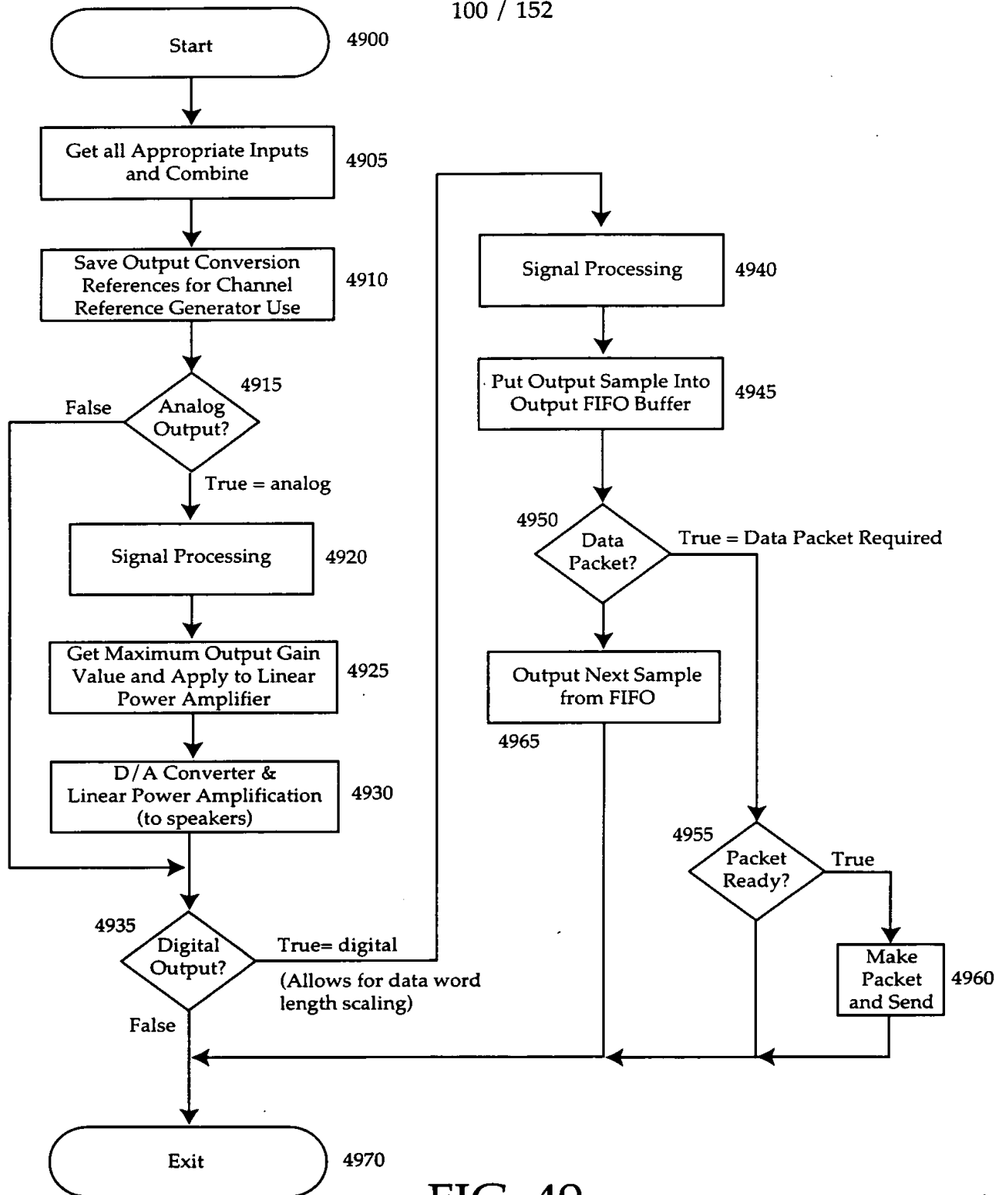


FIG. 49

Calibrator / Annunciator 420

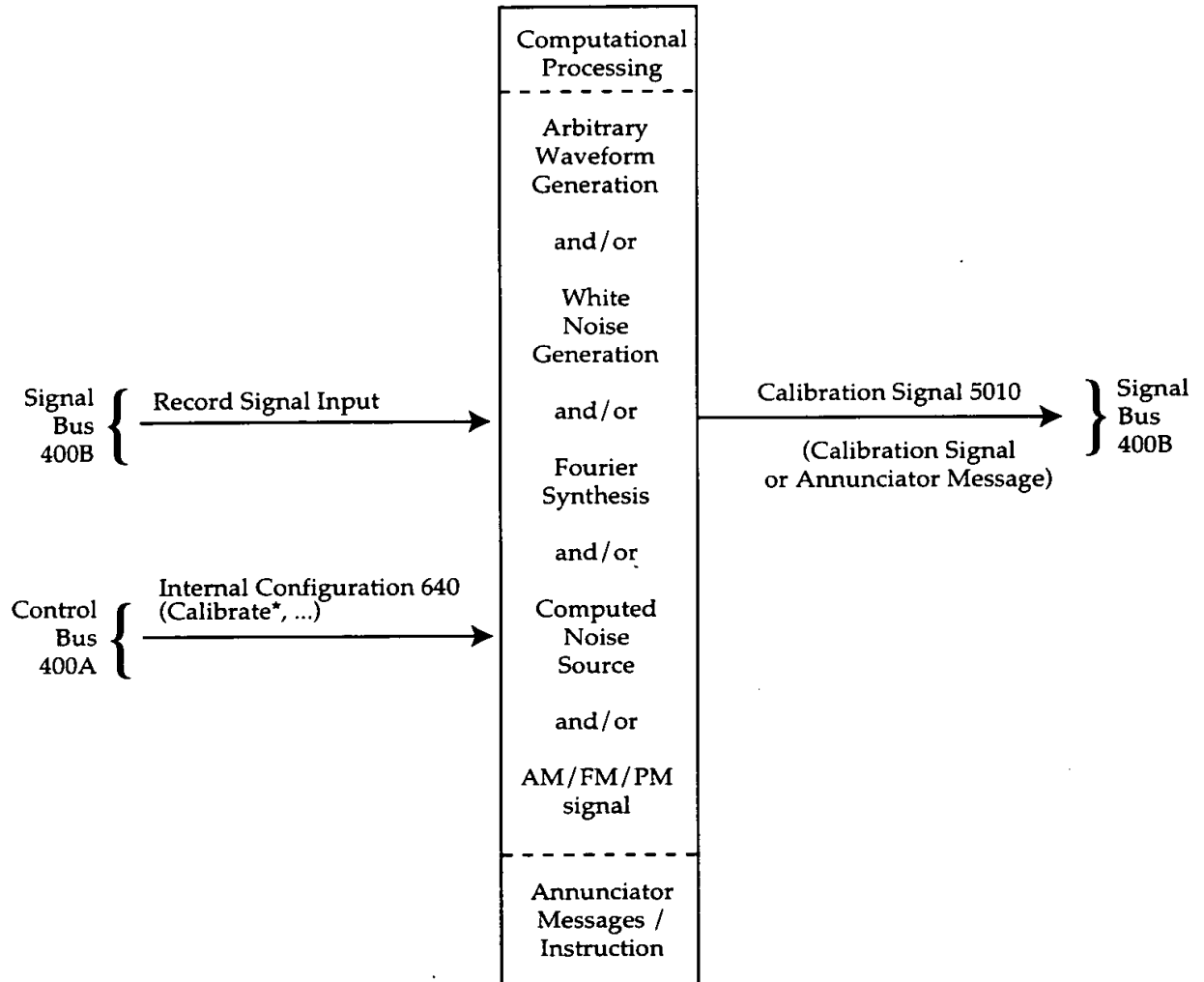


FIG. 50

09727269.112900

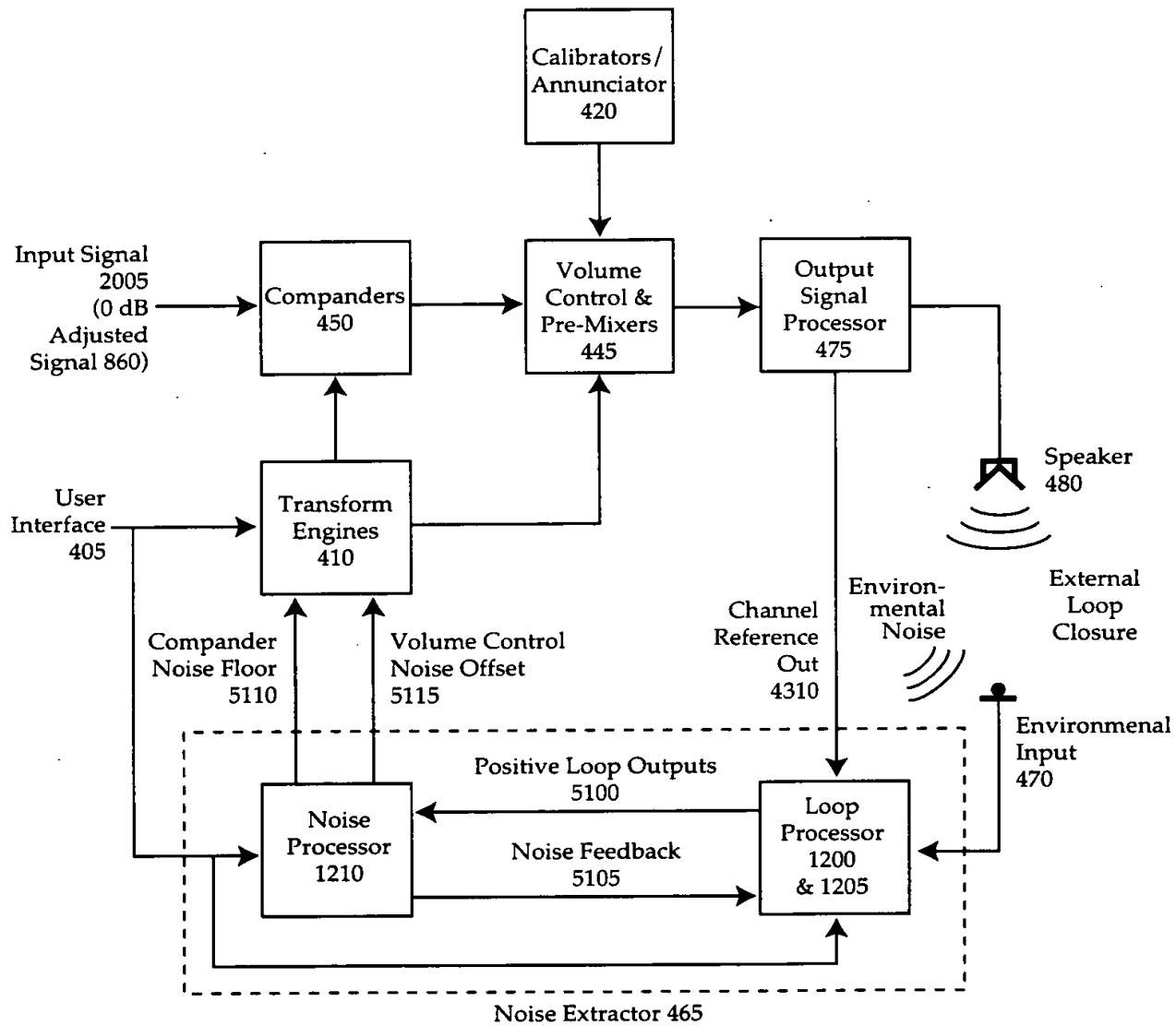


FIG. 51

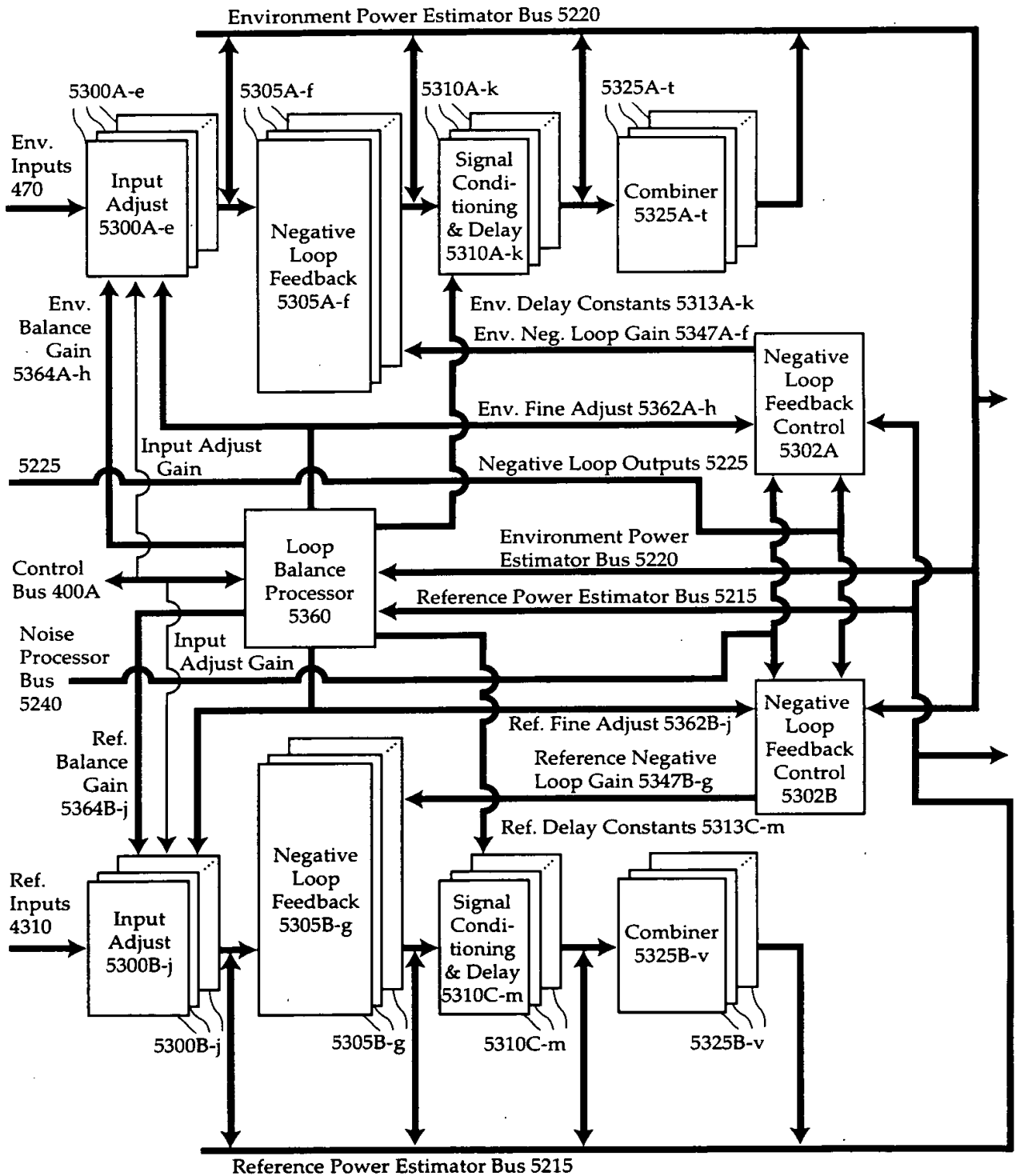


FIG. 52A

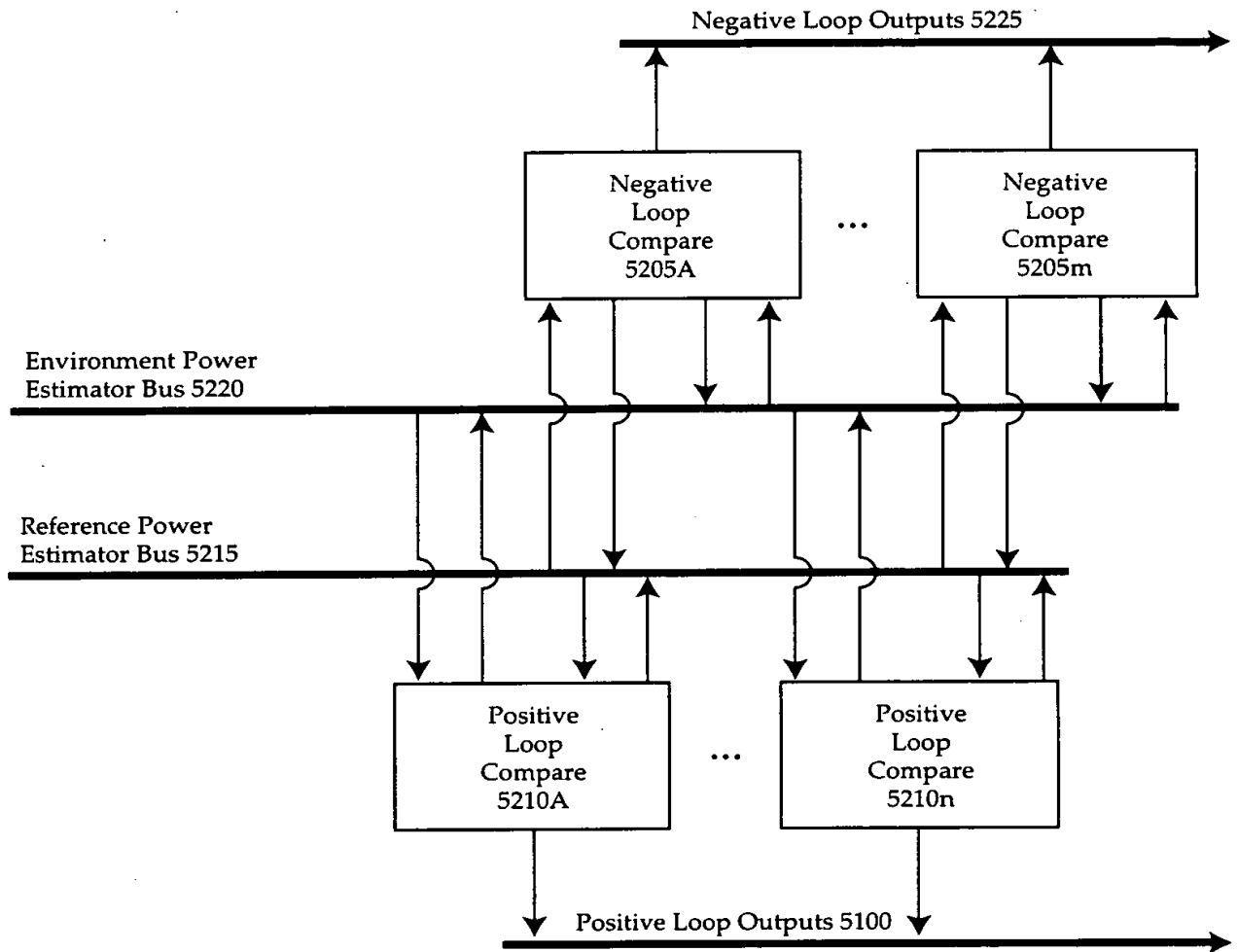


FIG. 52B

006211 692/2460

105 / 152

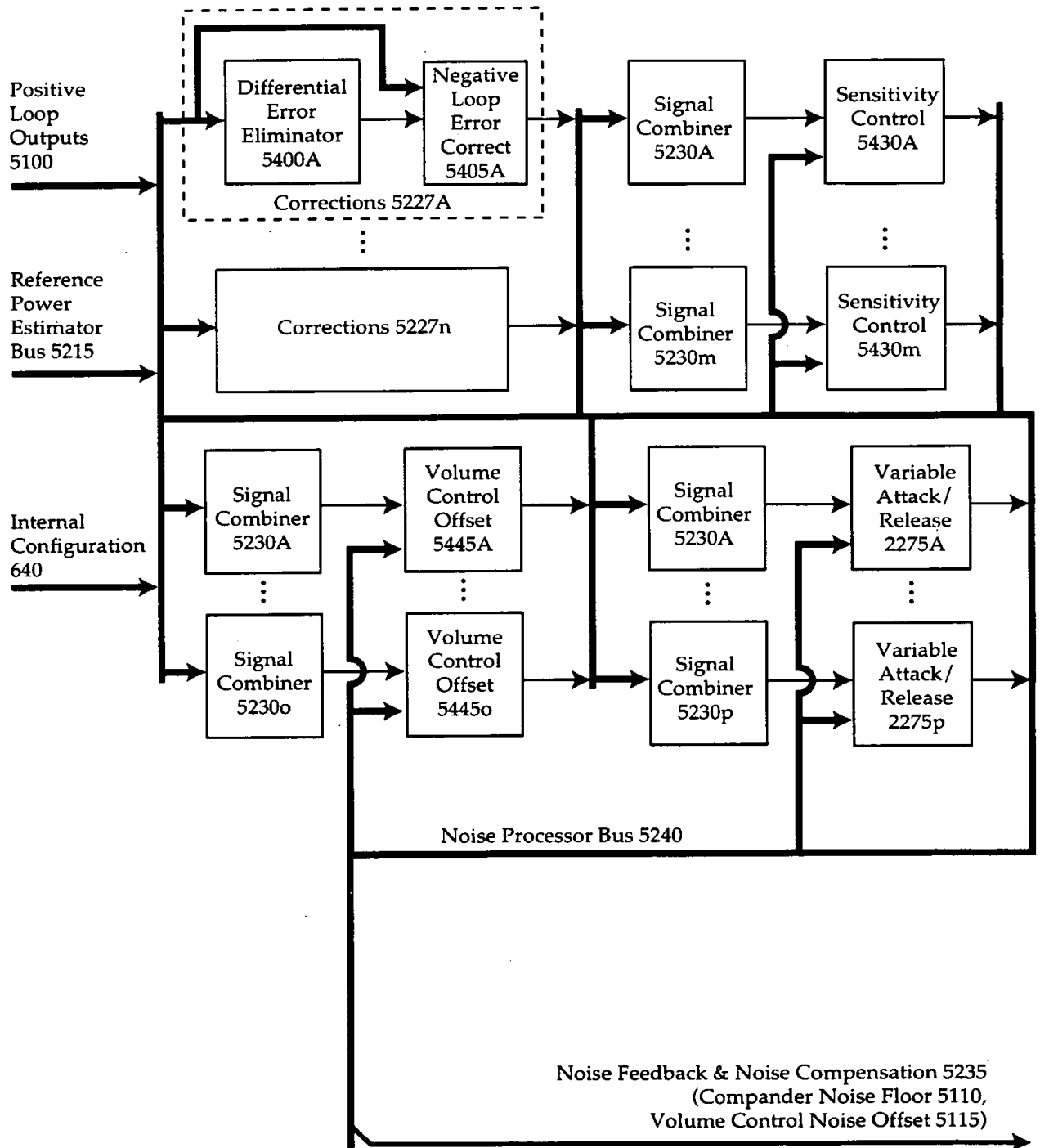


FIG. 52C

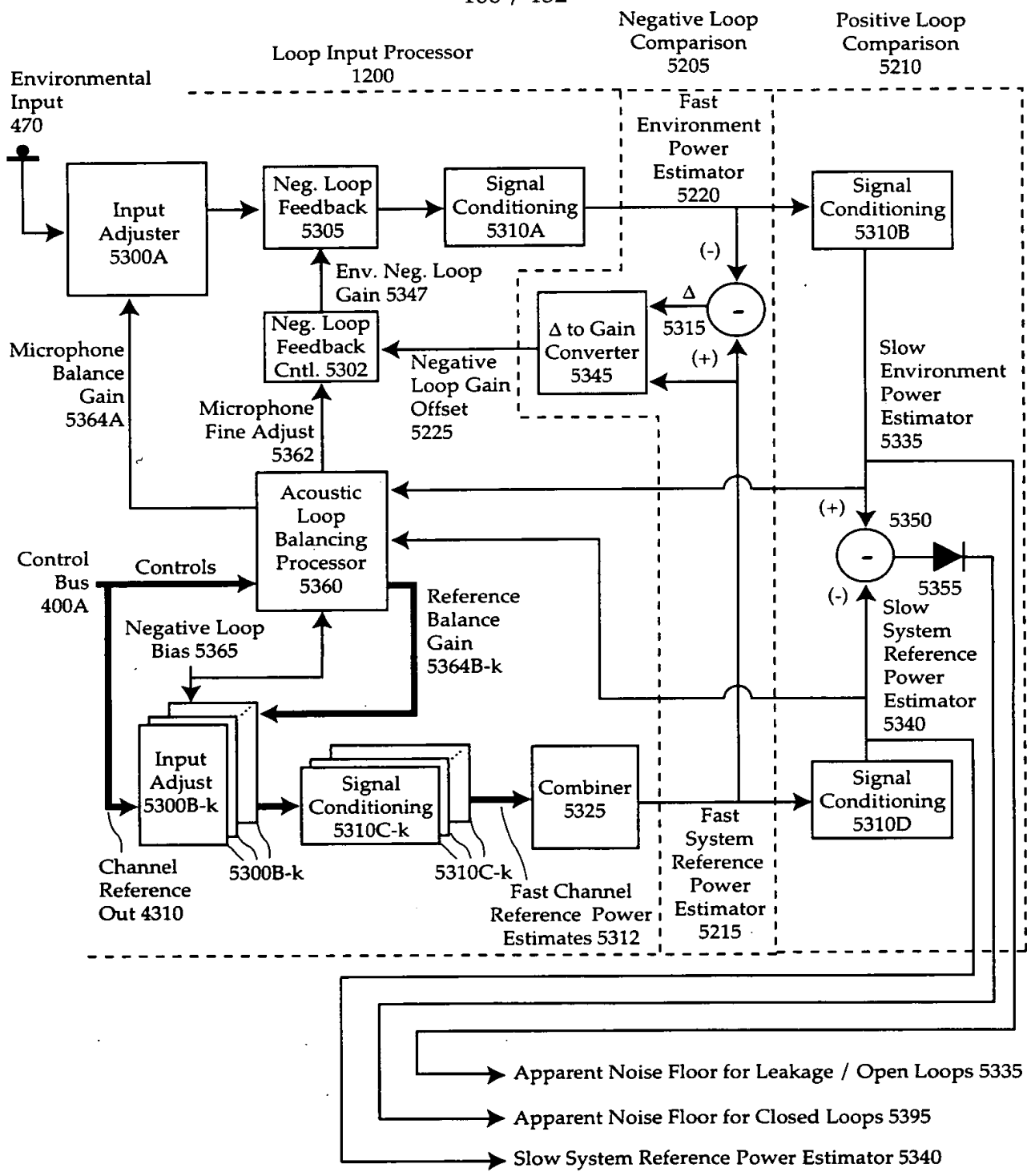


FIG. 53A

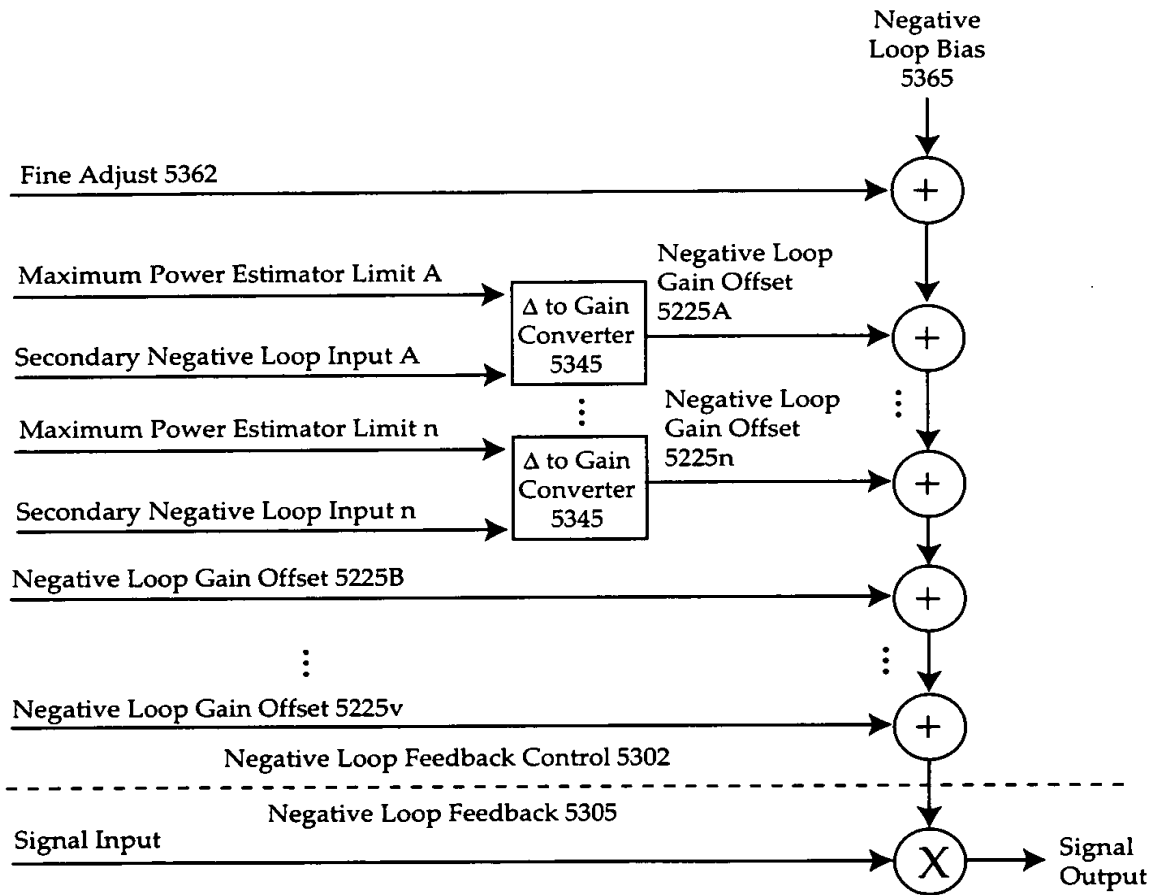


FIG. 53B

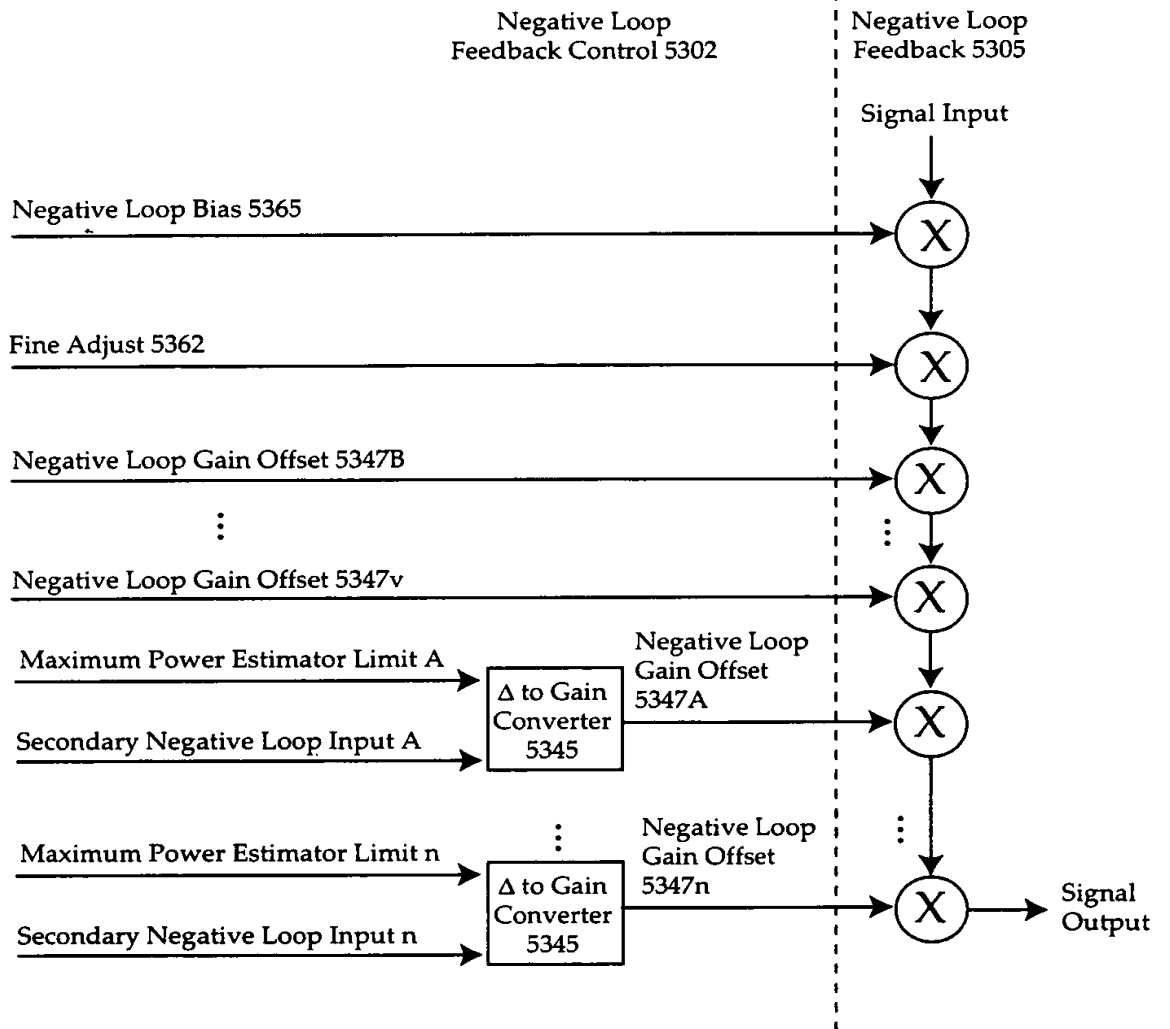


FIG. 53C

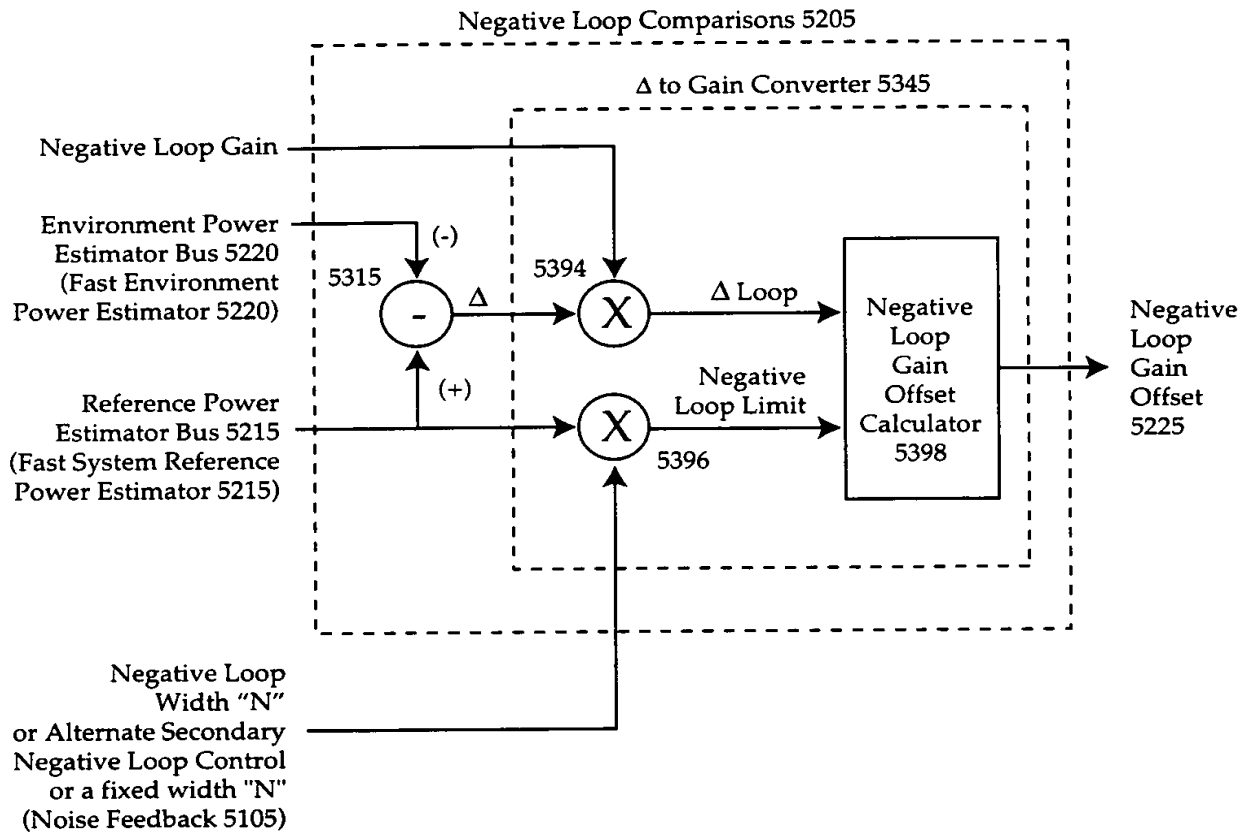


FIG. 53D

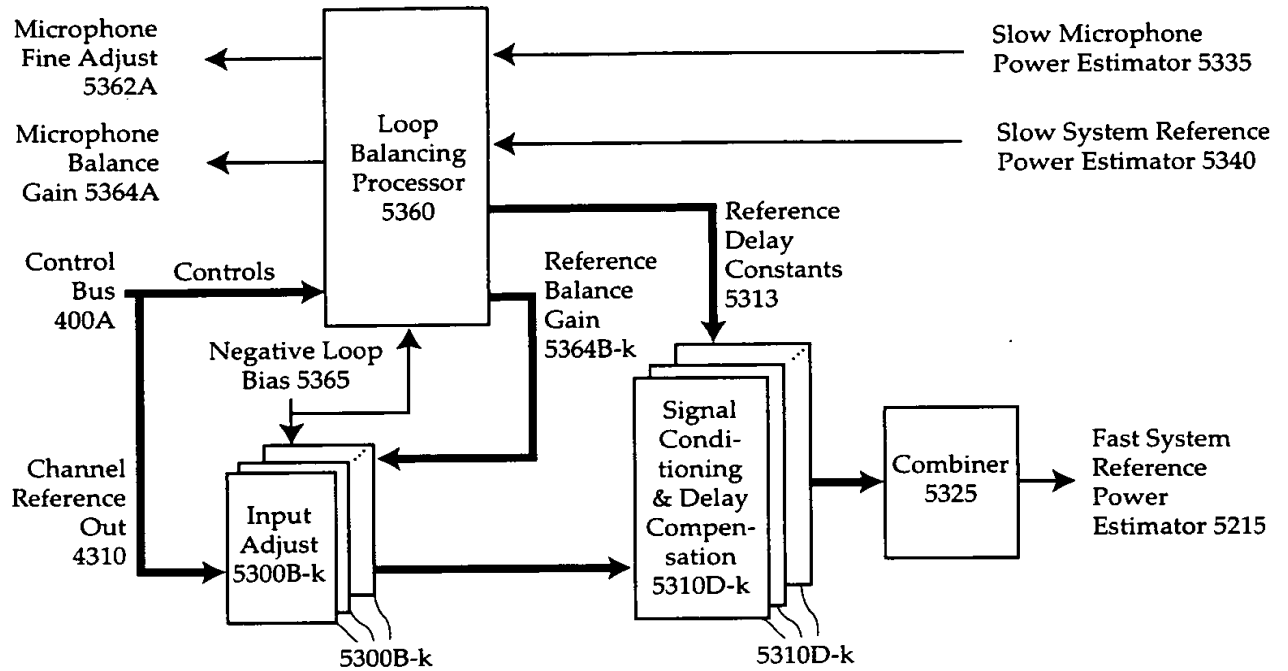


FIG. 53E

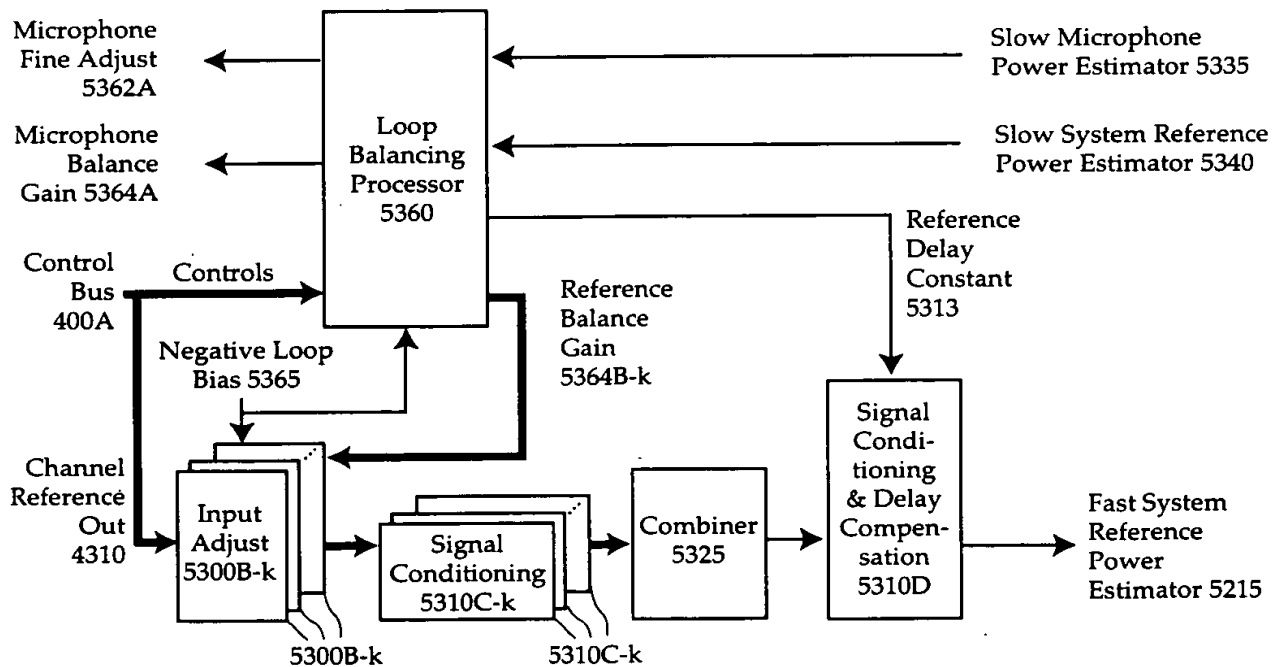


FIG. 53F

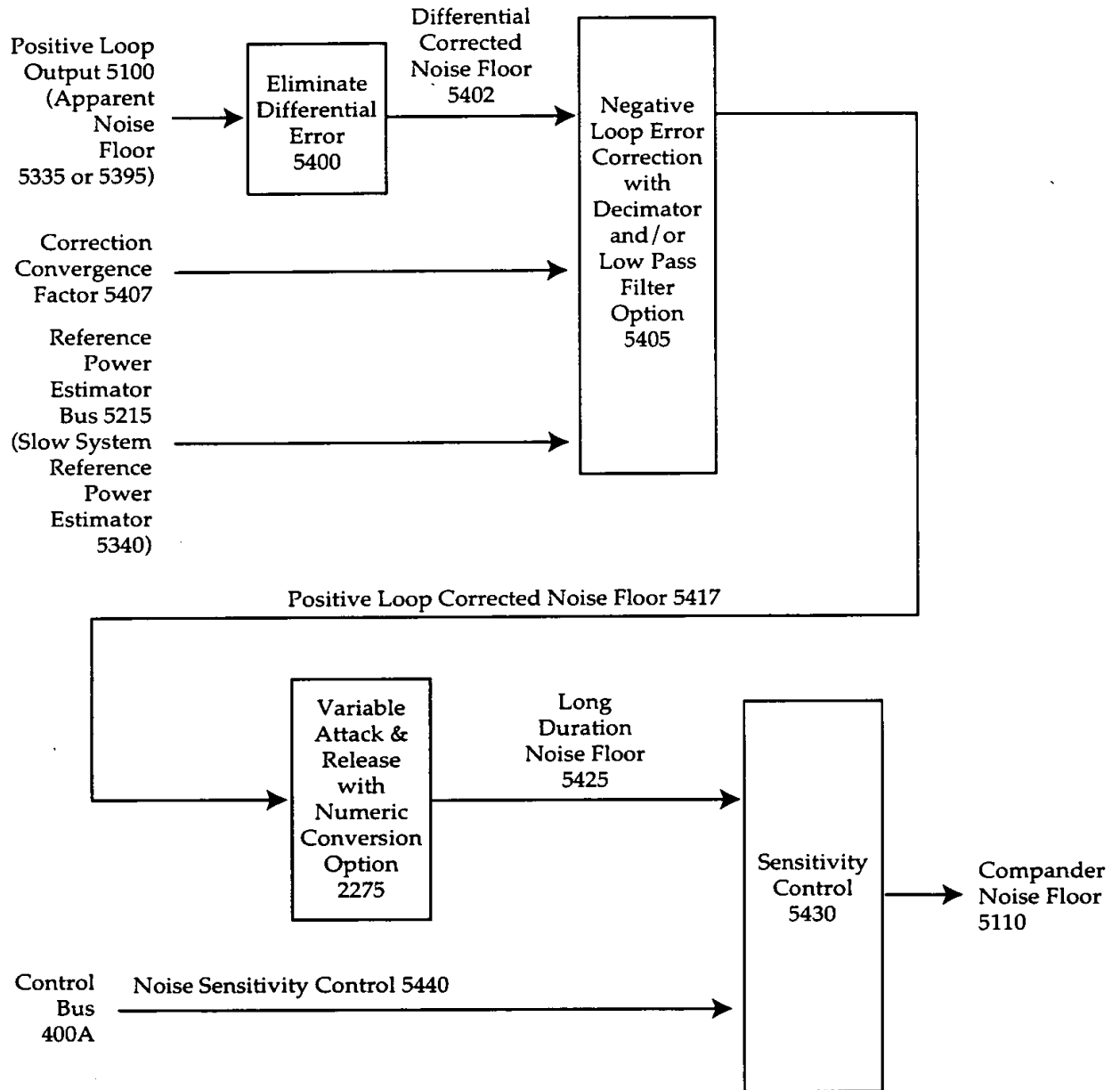
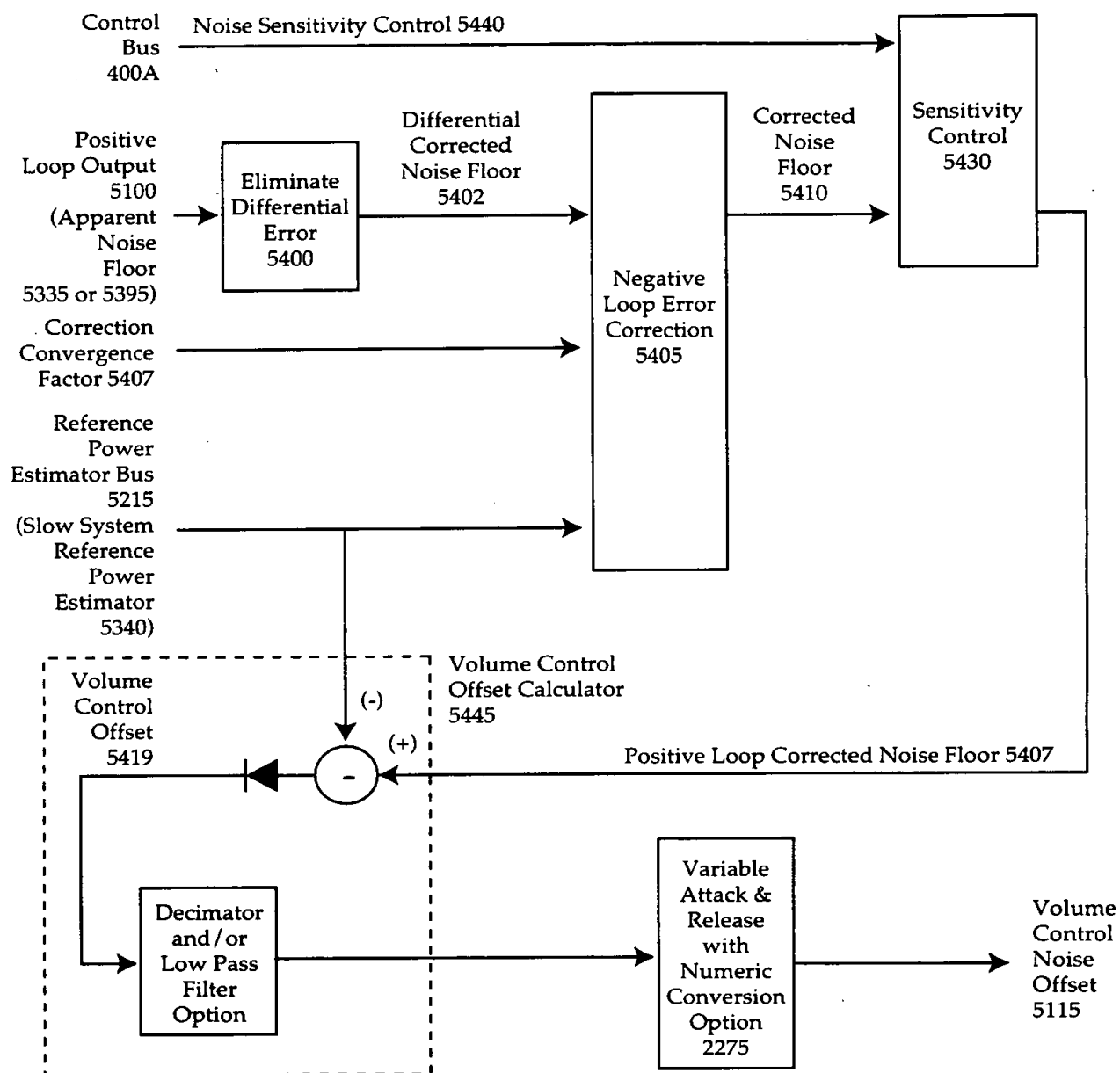


FIG. 54A



09769 11000

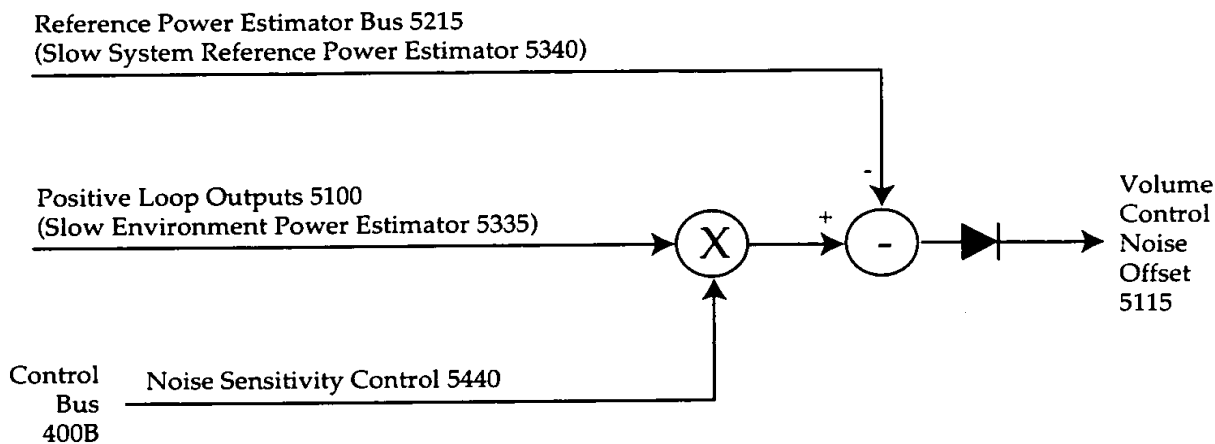


FIG. 54C

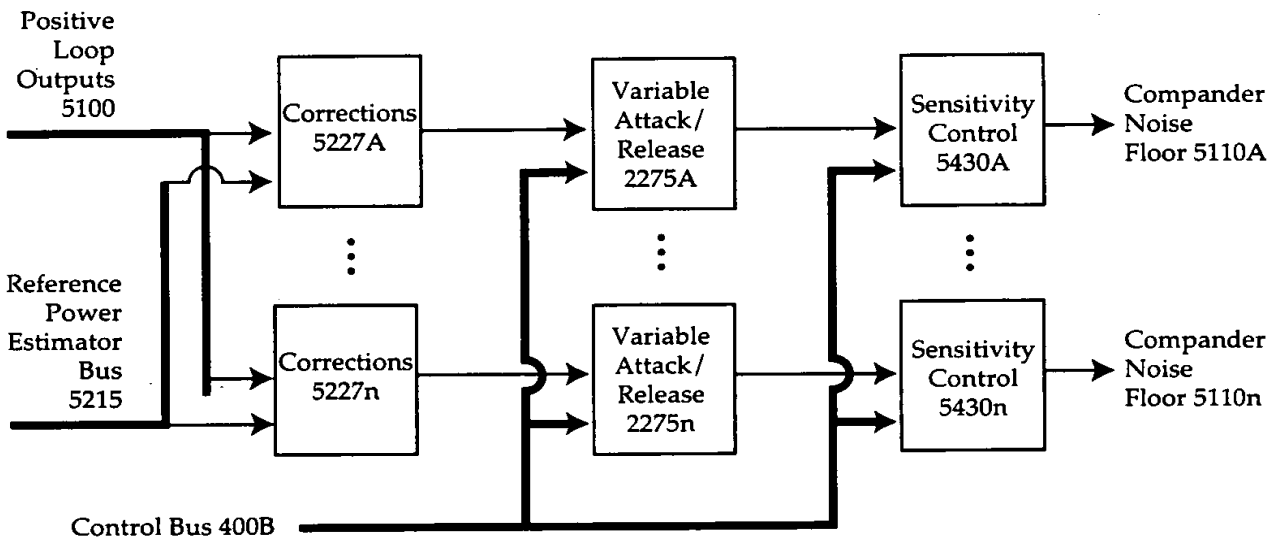


FIG. 54D

006277-6922260

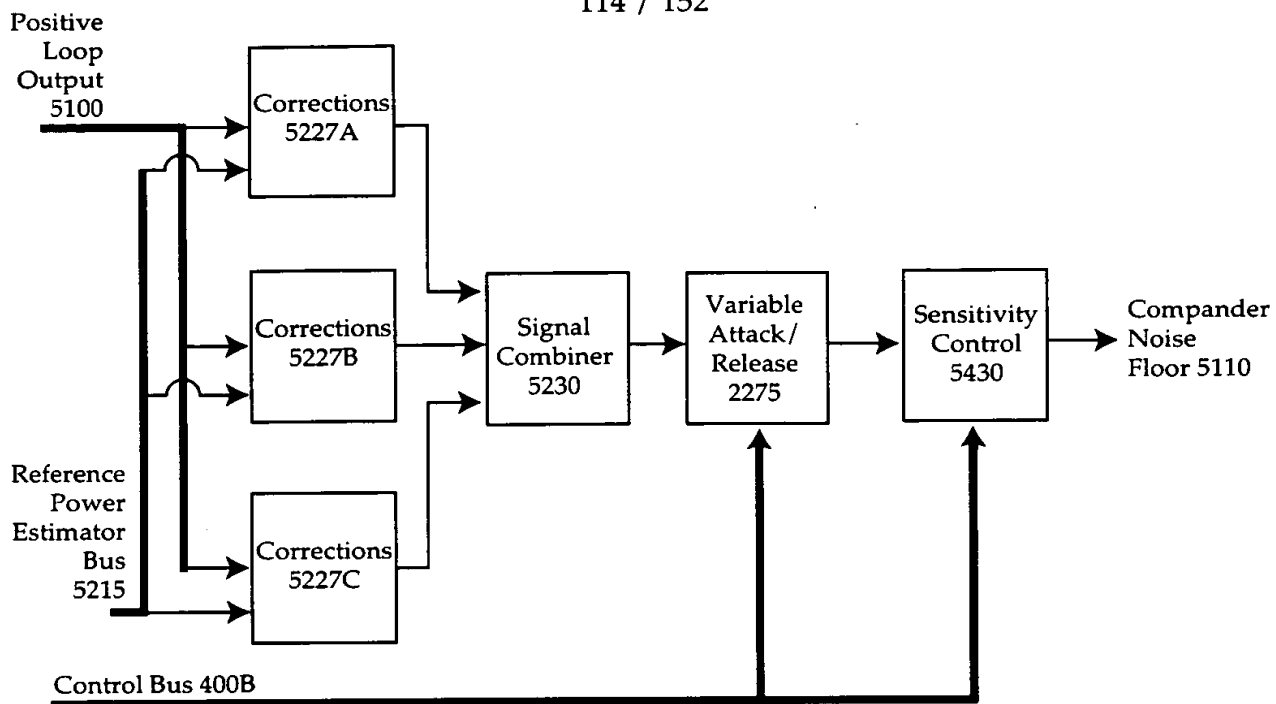


FIG. 54E

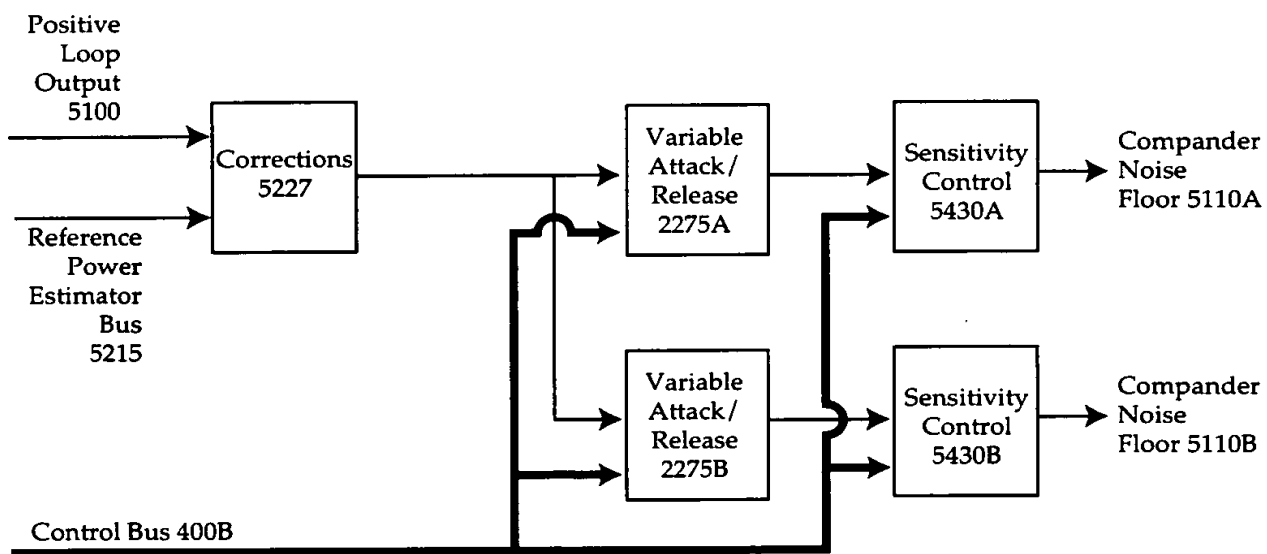


FIG. 54F

006211 6922260

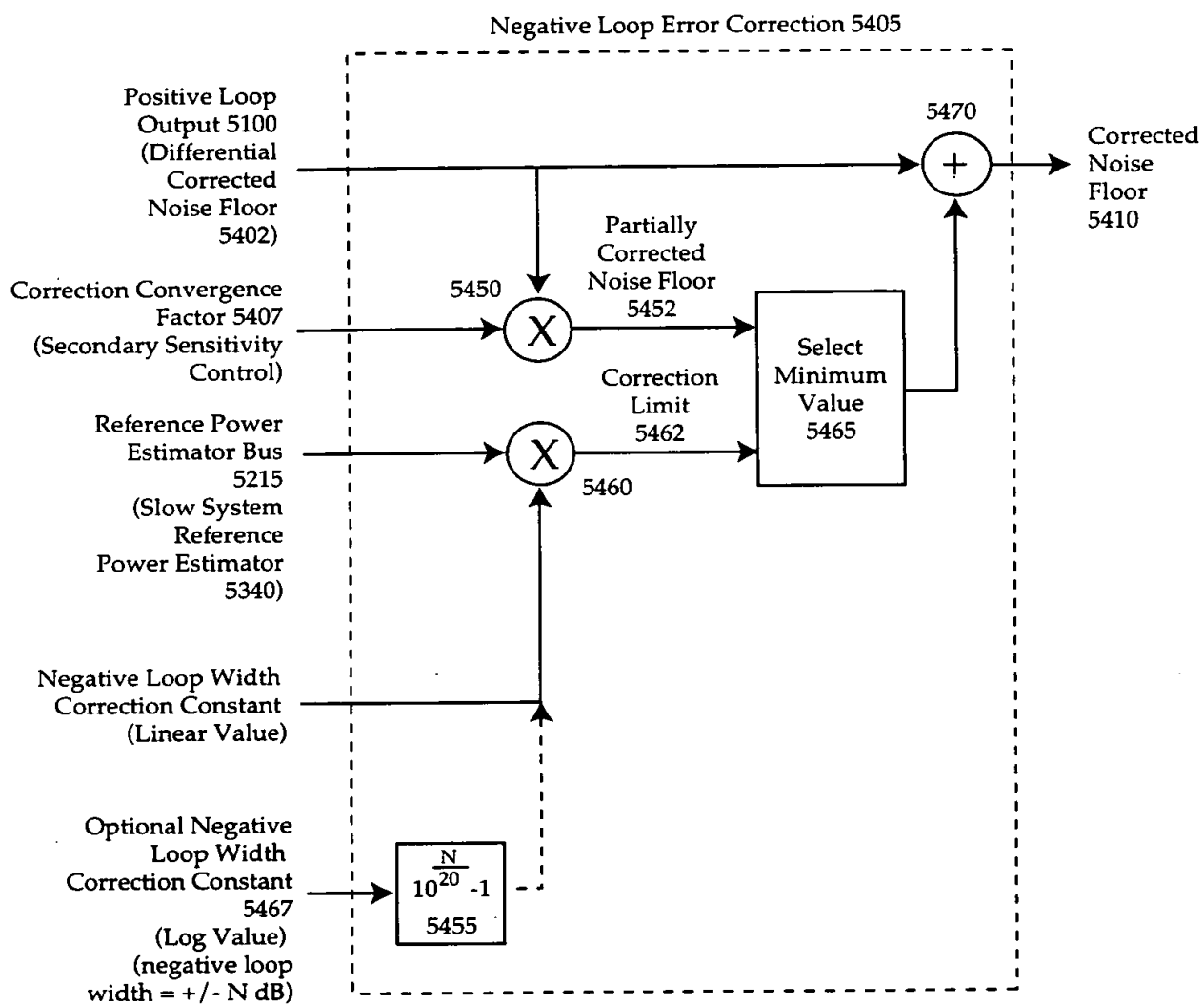


FIG. 54G

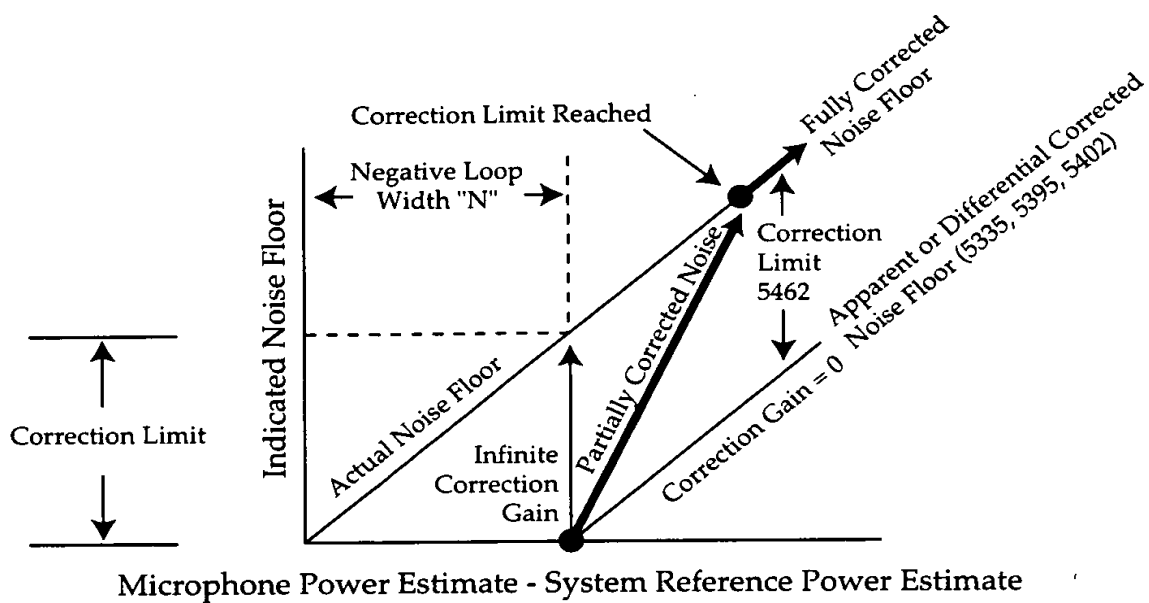


FIG. 54H

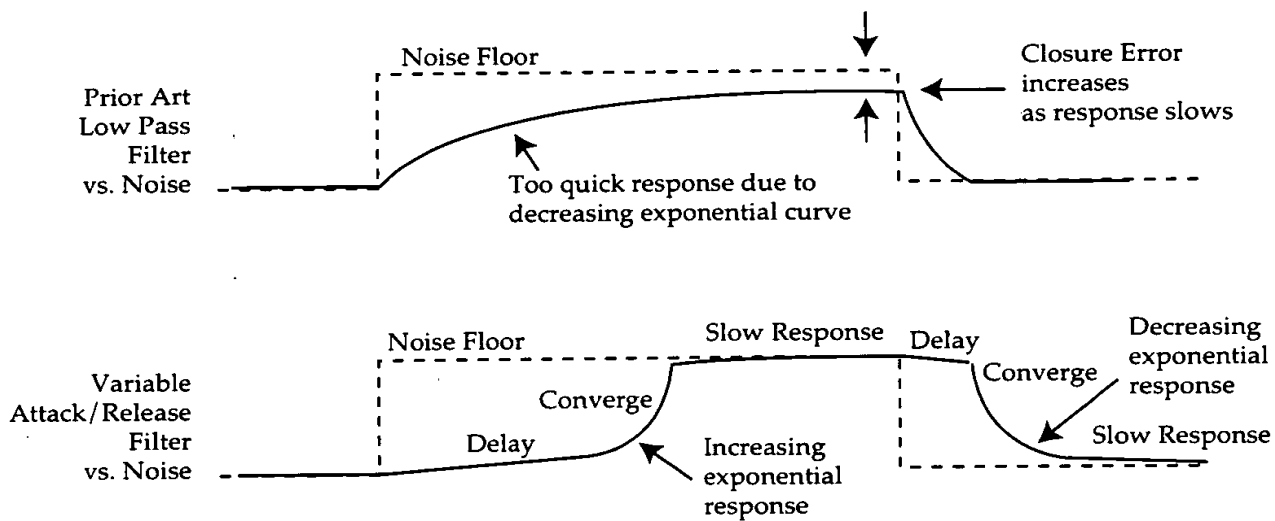


FIG. 55A

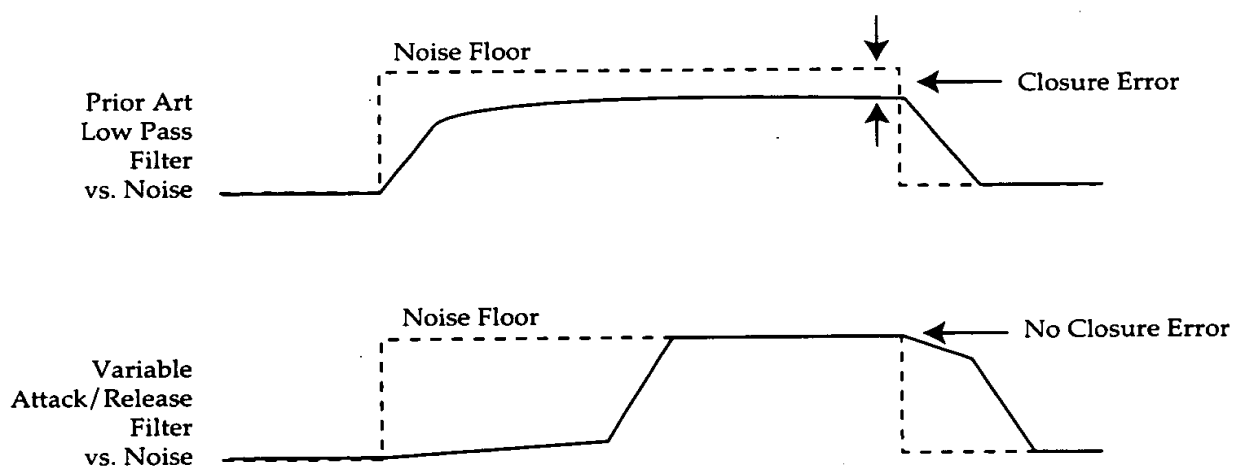


FIG. 55B

006211" 6922260

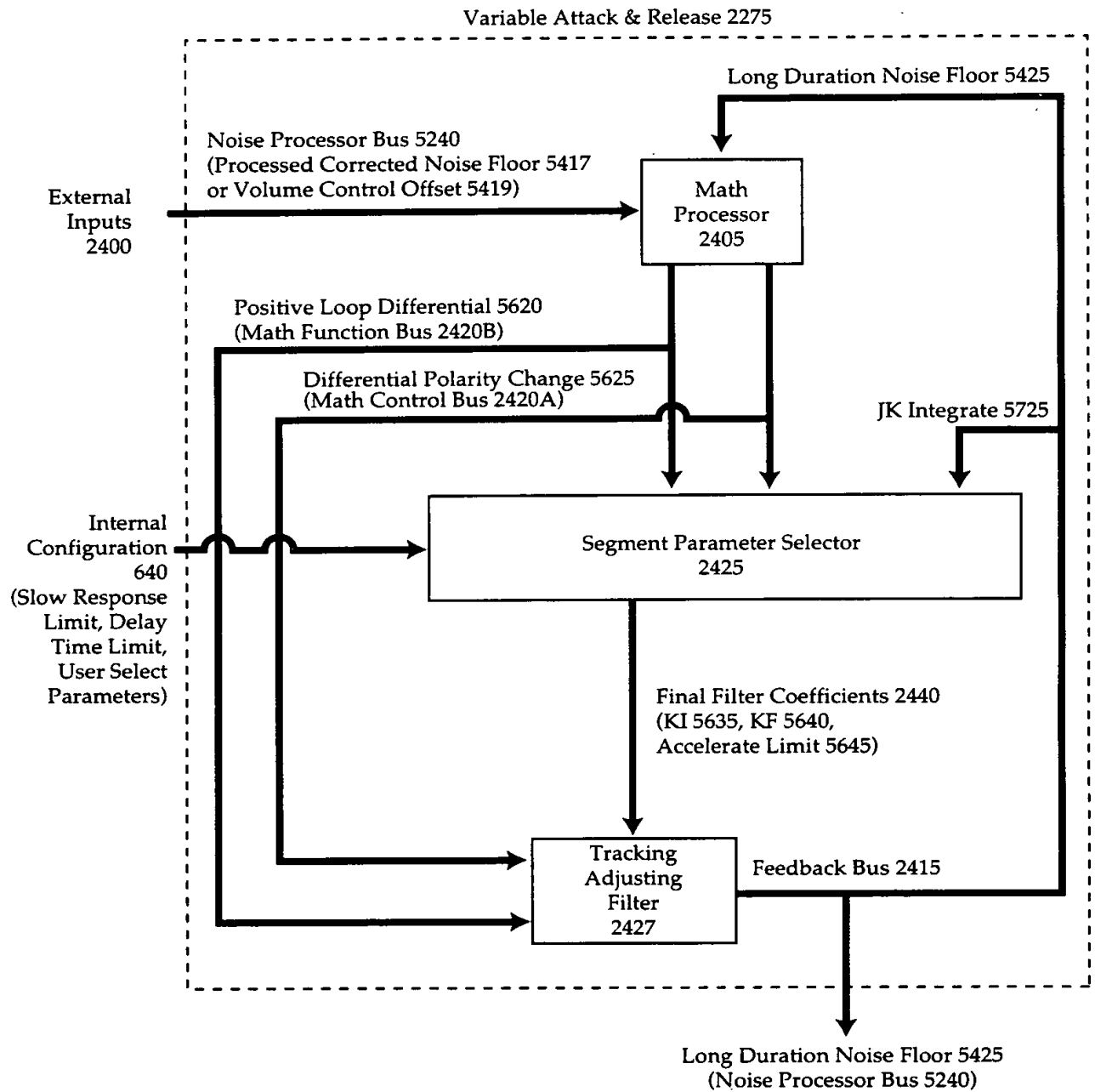
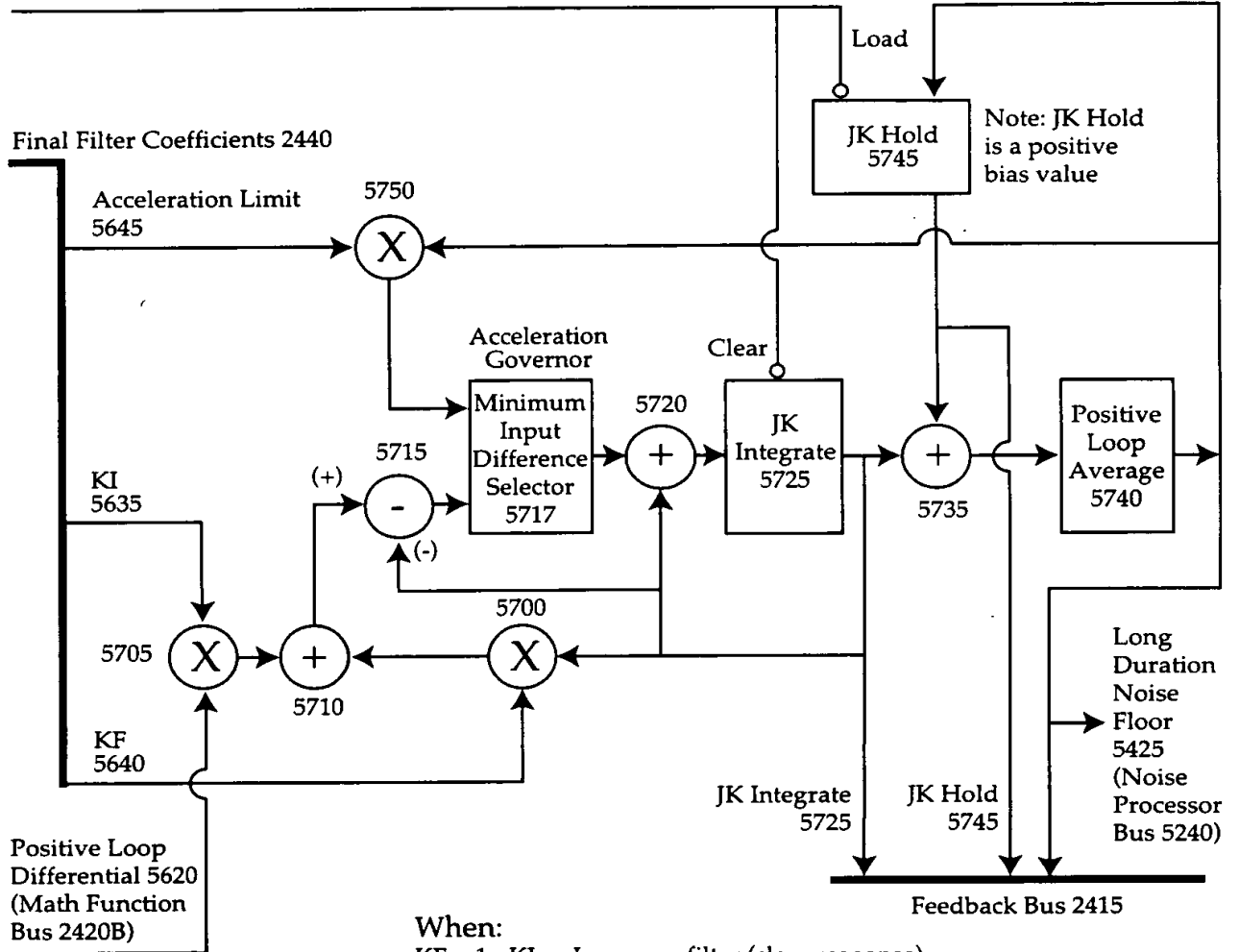


FIG. 55C



Differential Polarity Change 5625
(Math Control Bus 2420A)



When:

$KF = 1 - KI$ Low pass filter (slow response)
 $KF = 1$ Integrator (delay response)
 $KF > 1$ Accelerating Integrator (converge)

FIG. 57A

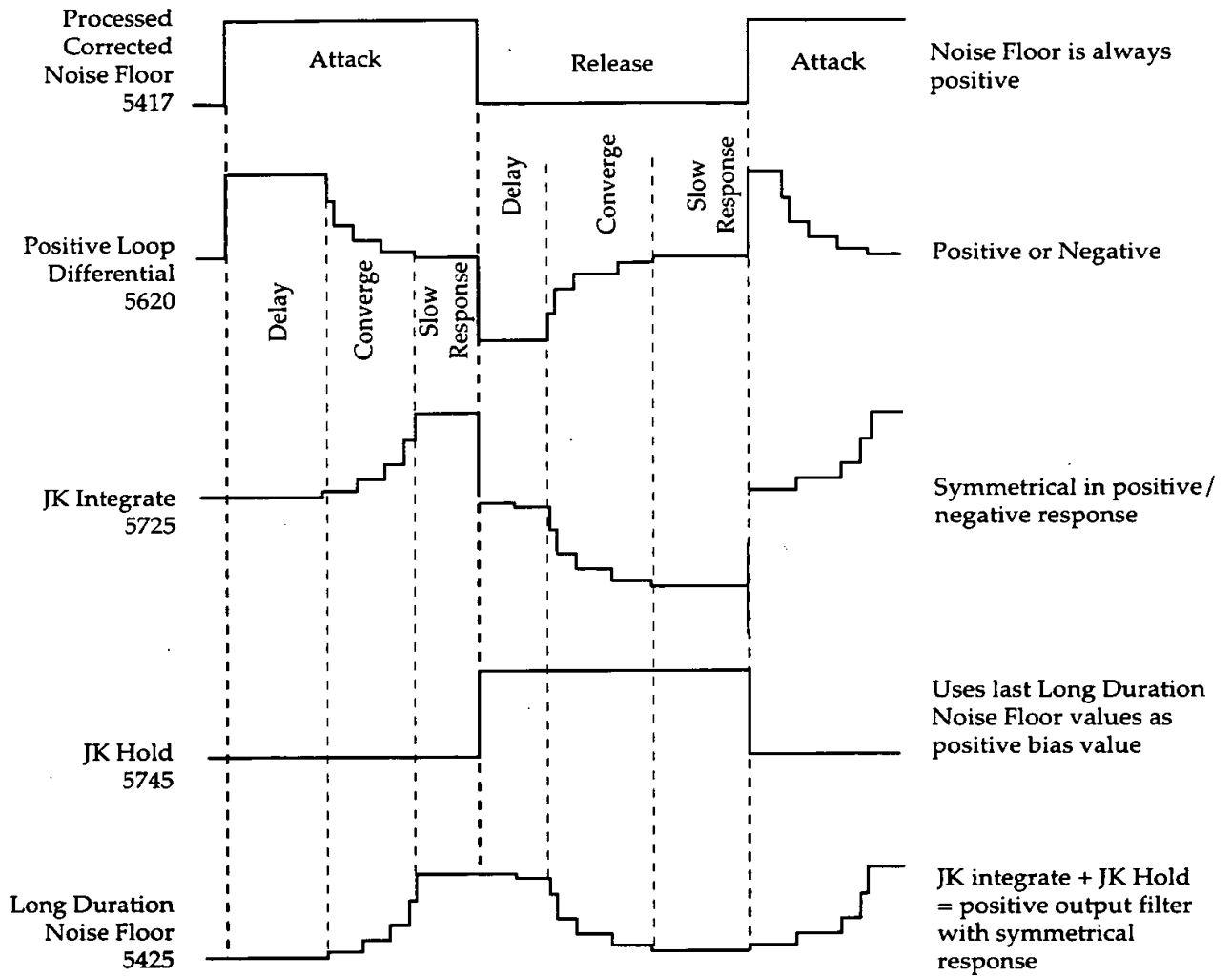


FIG. 57B

006277 692260

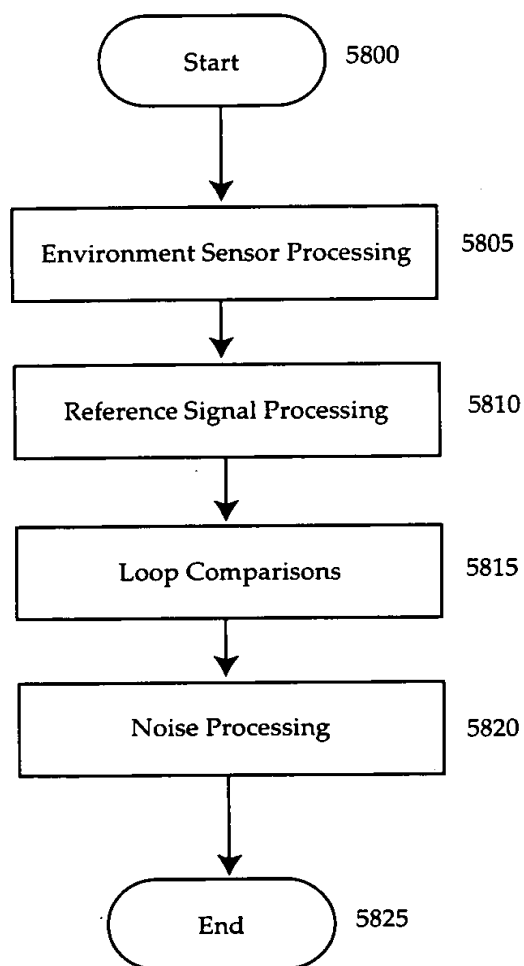


FIG. 58

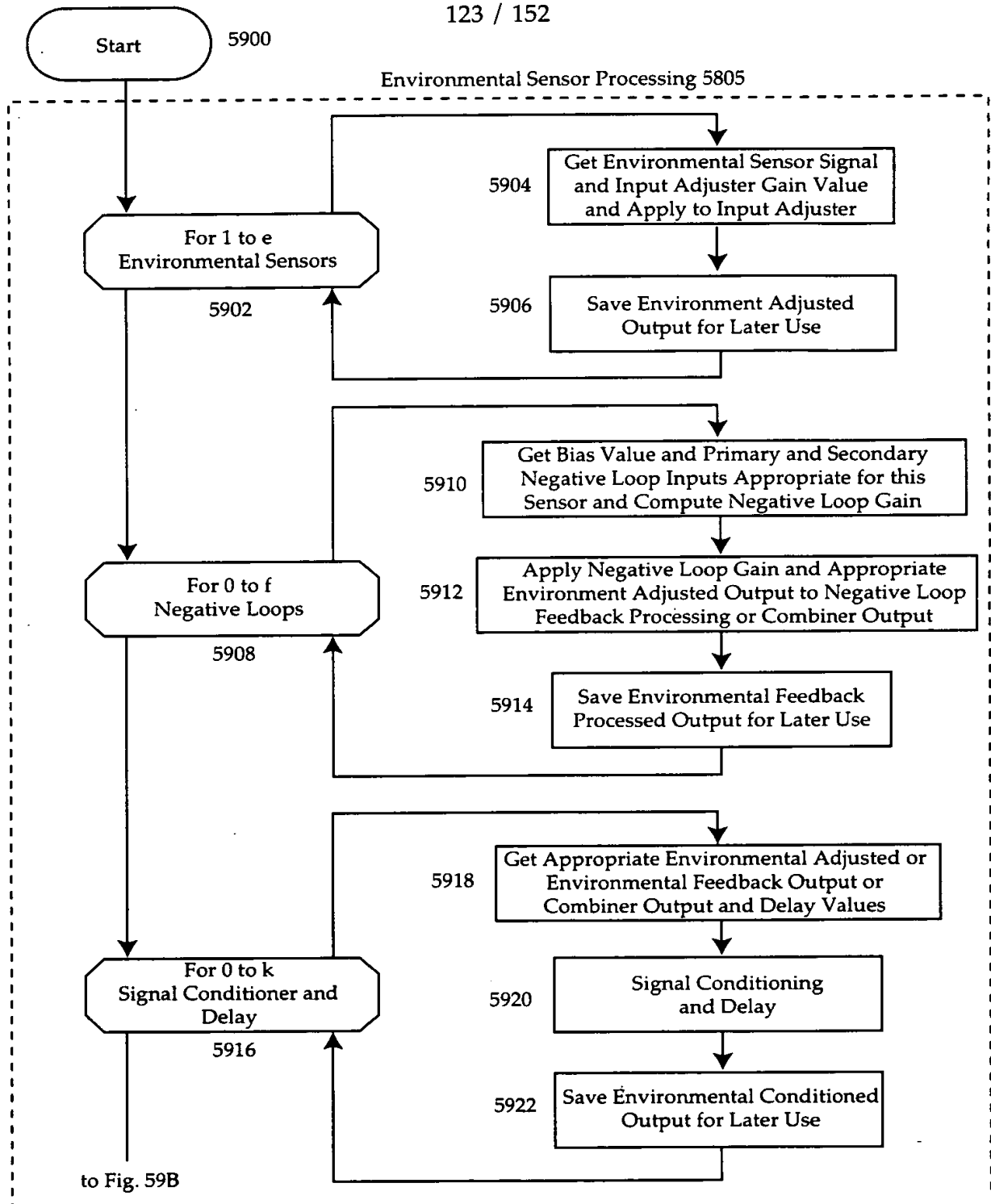


FIG. 59A

006211 6922260

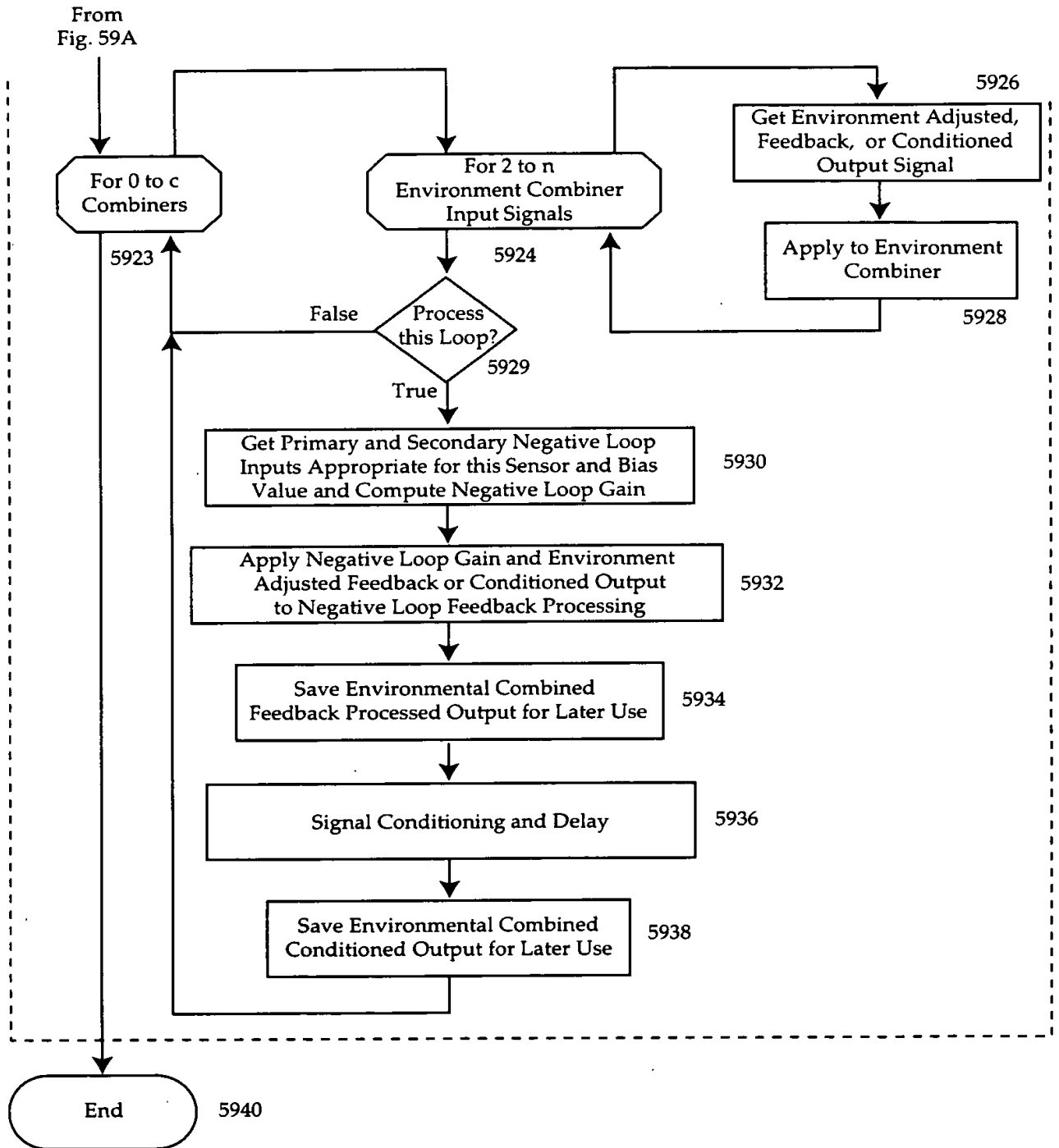


FIG. 59B

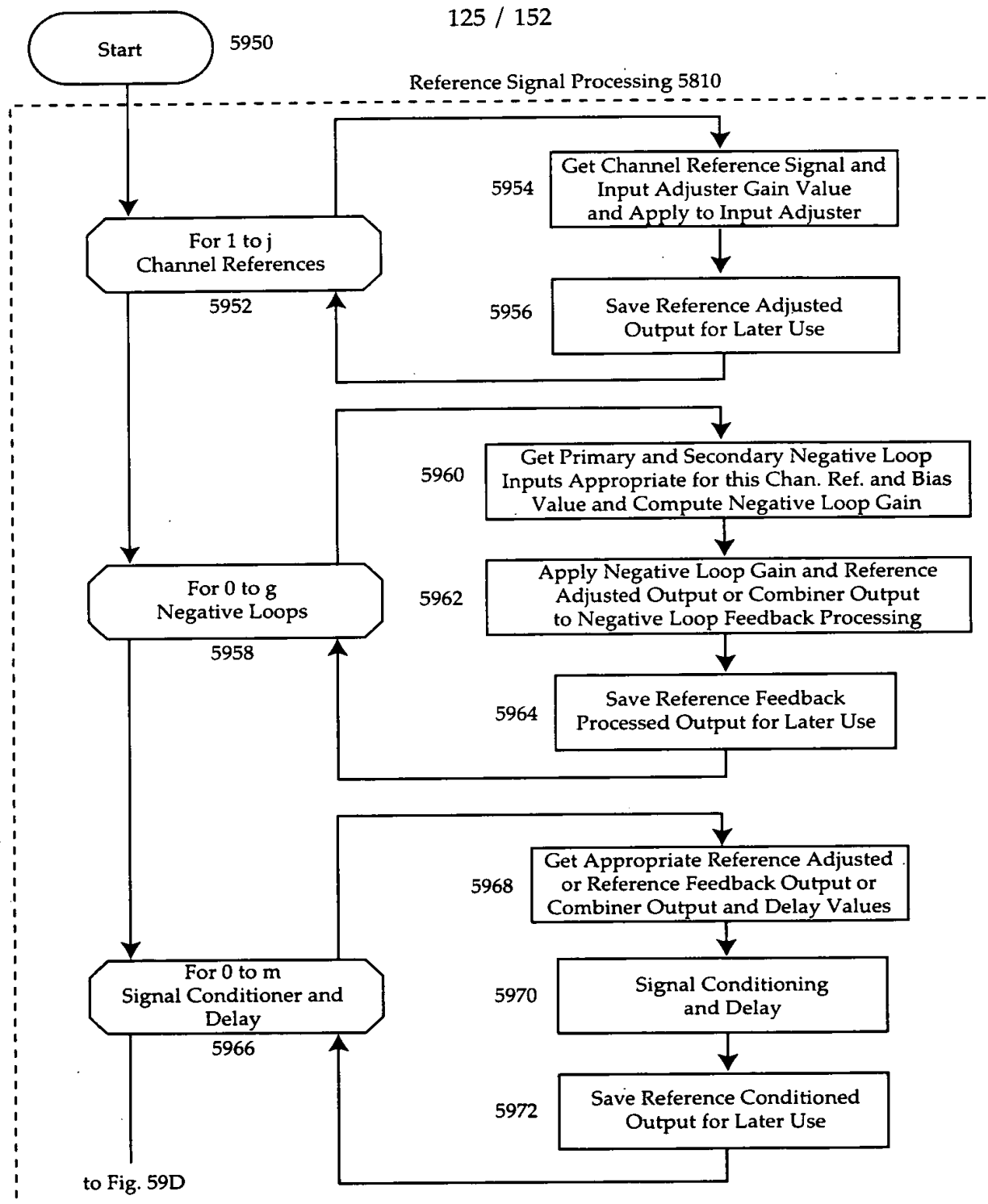


FIG. 59C

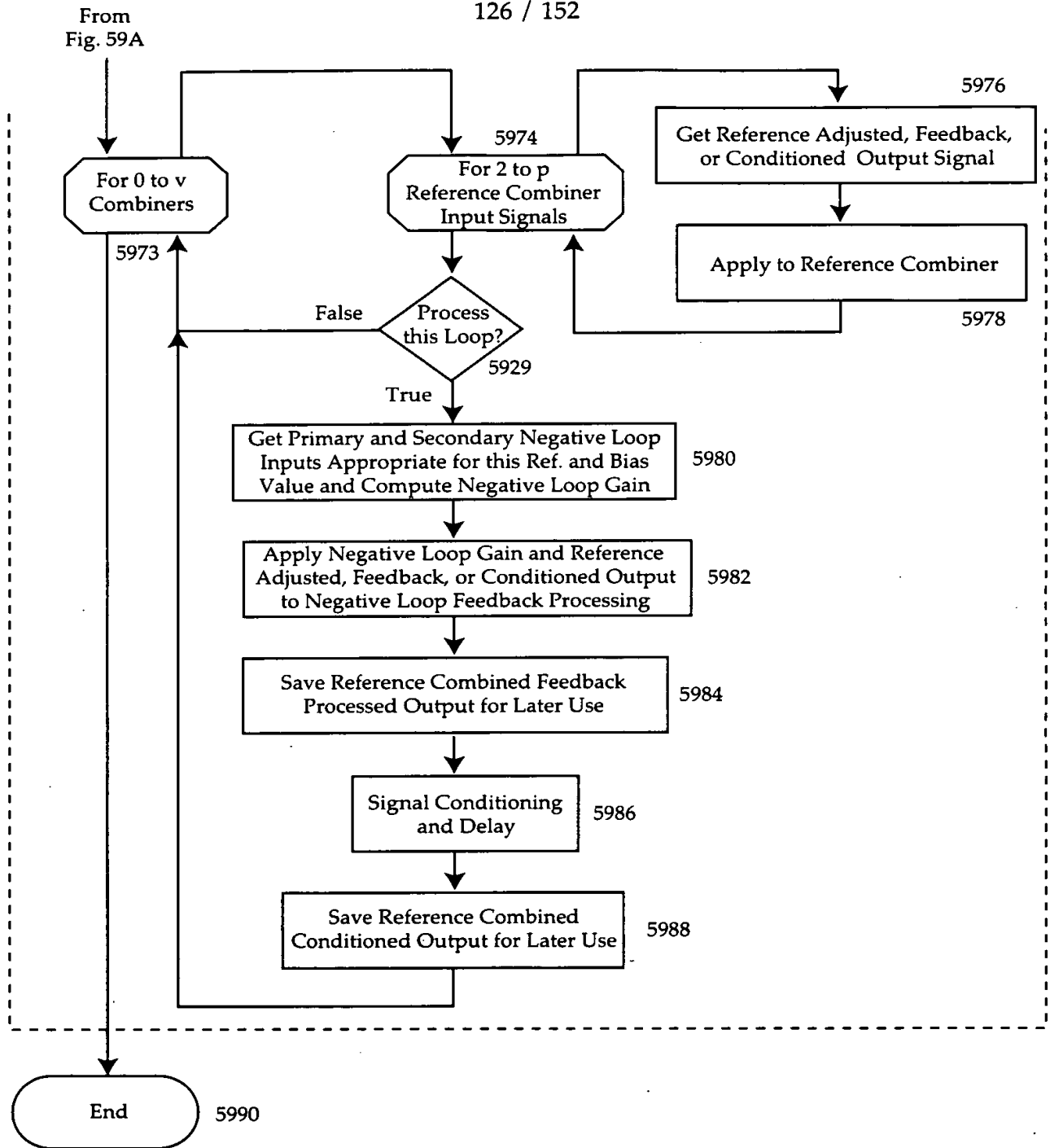


FIG. 59D

006211" 6926260

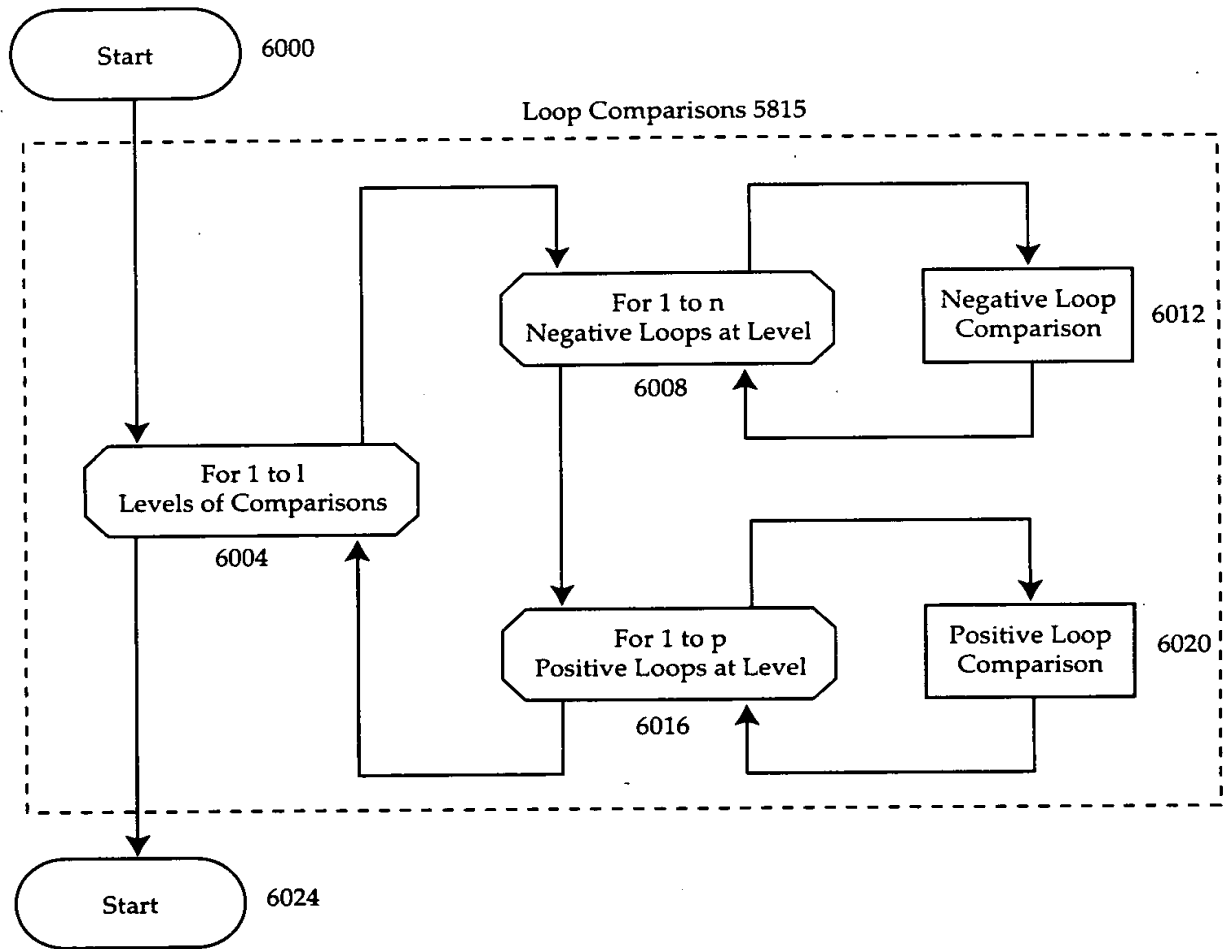


FIG. 60A

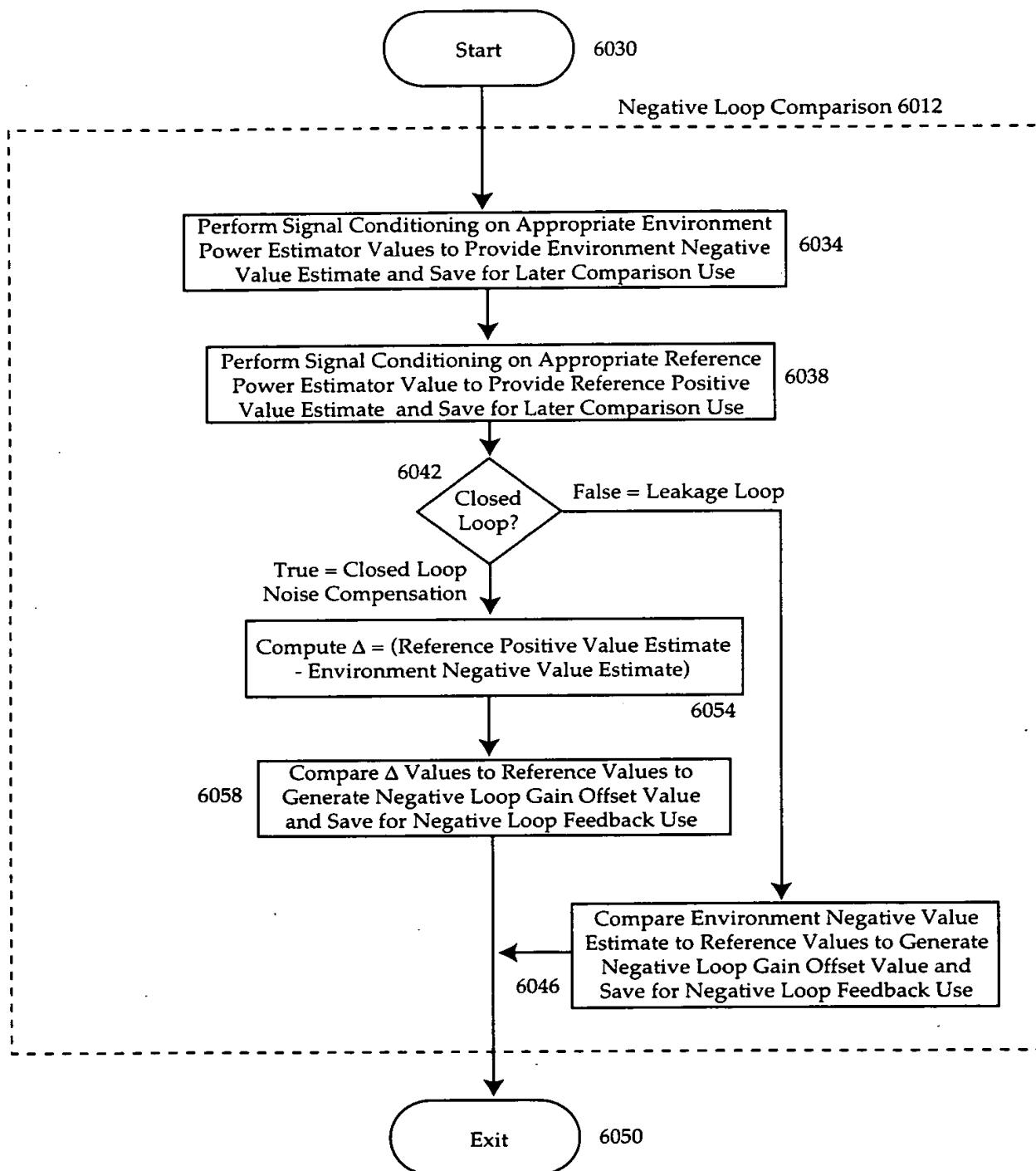


FIG. 60B

006277 6922260

006211 6922260

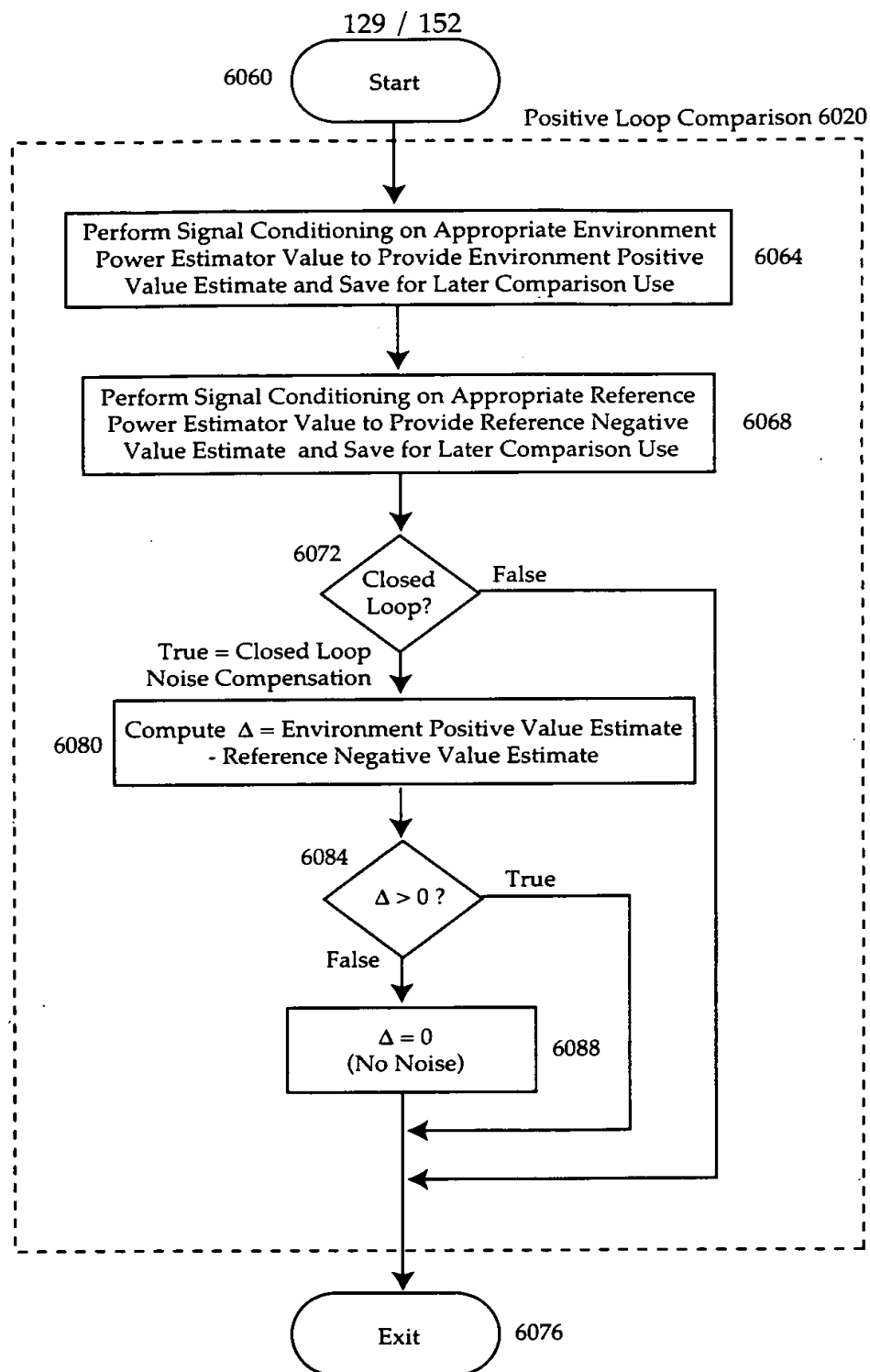


FIG. 60C

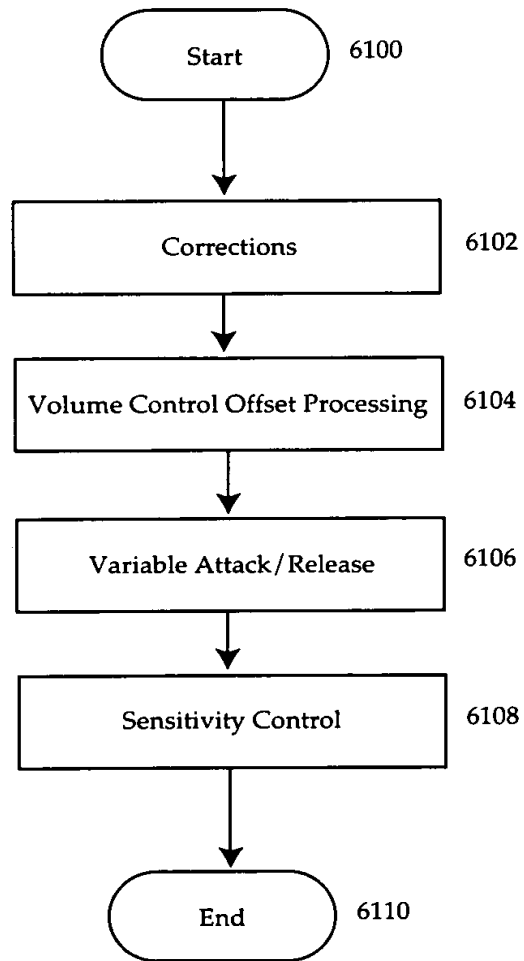


FIG. 61A

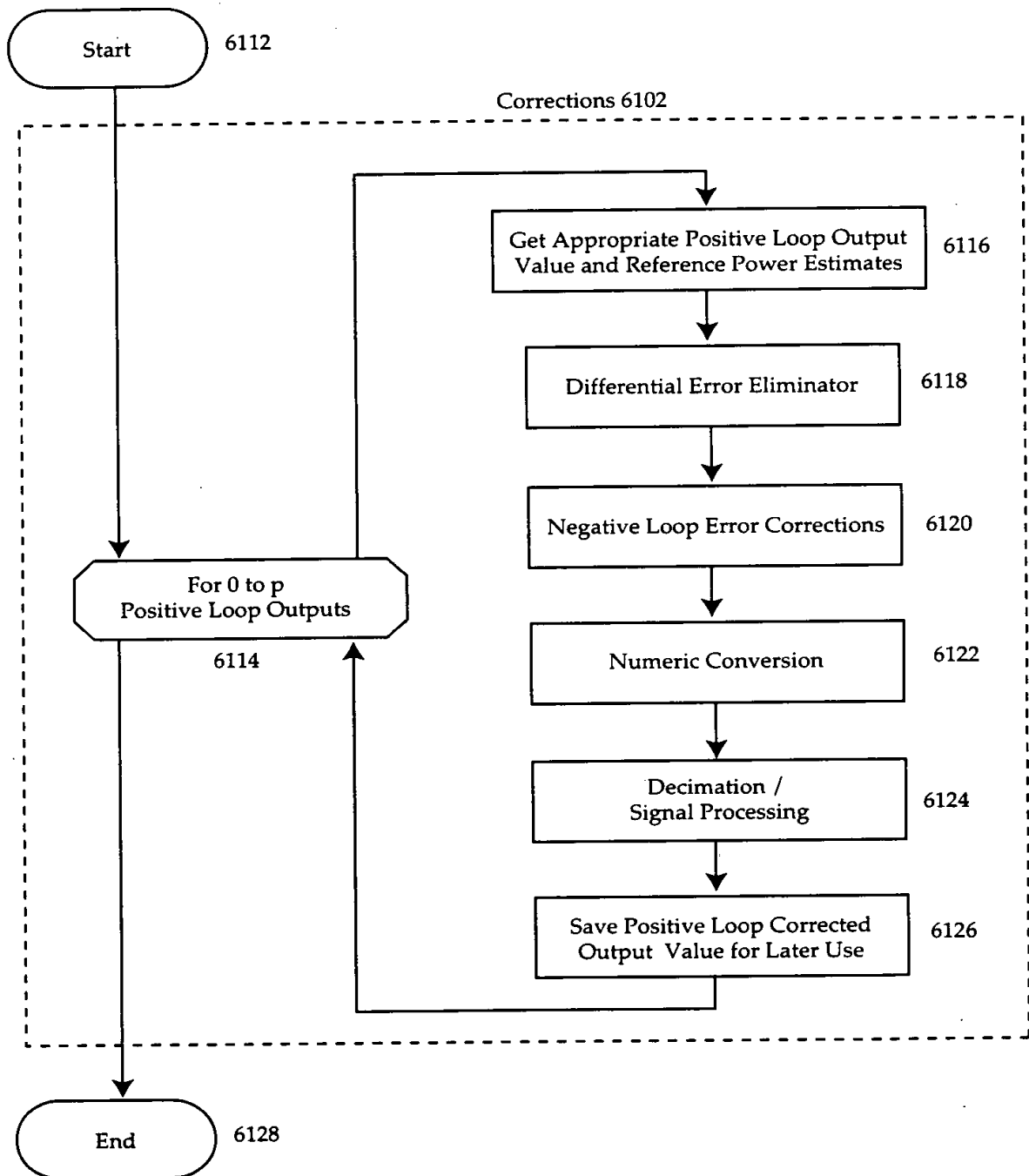


FIG. 61B

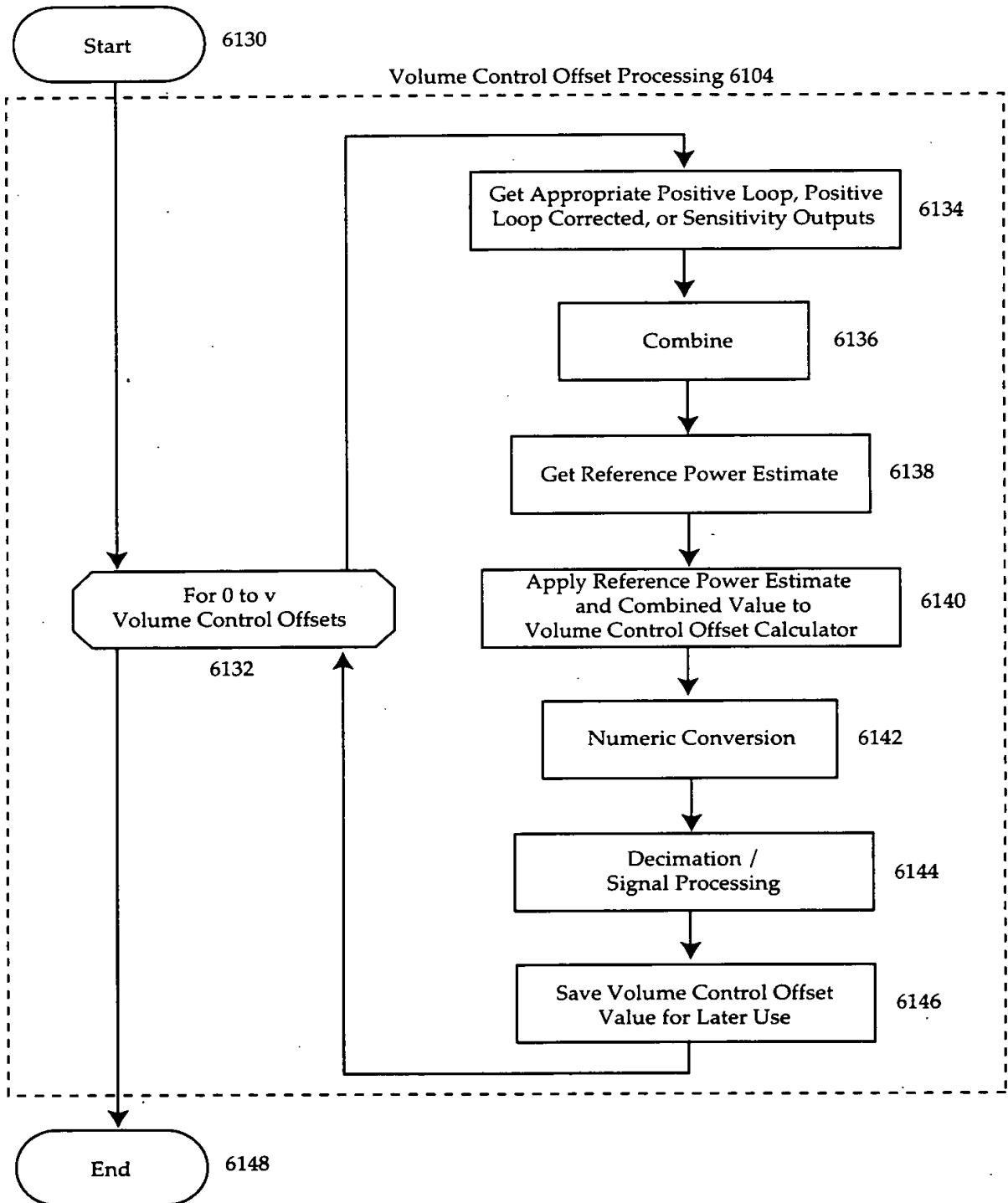


FIG. 61C

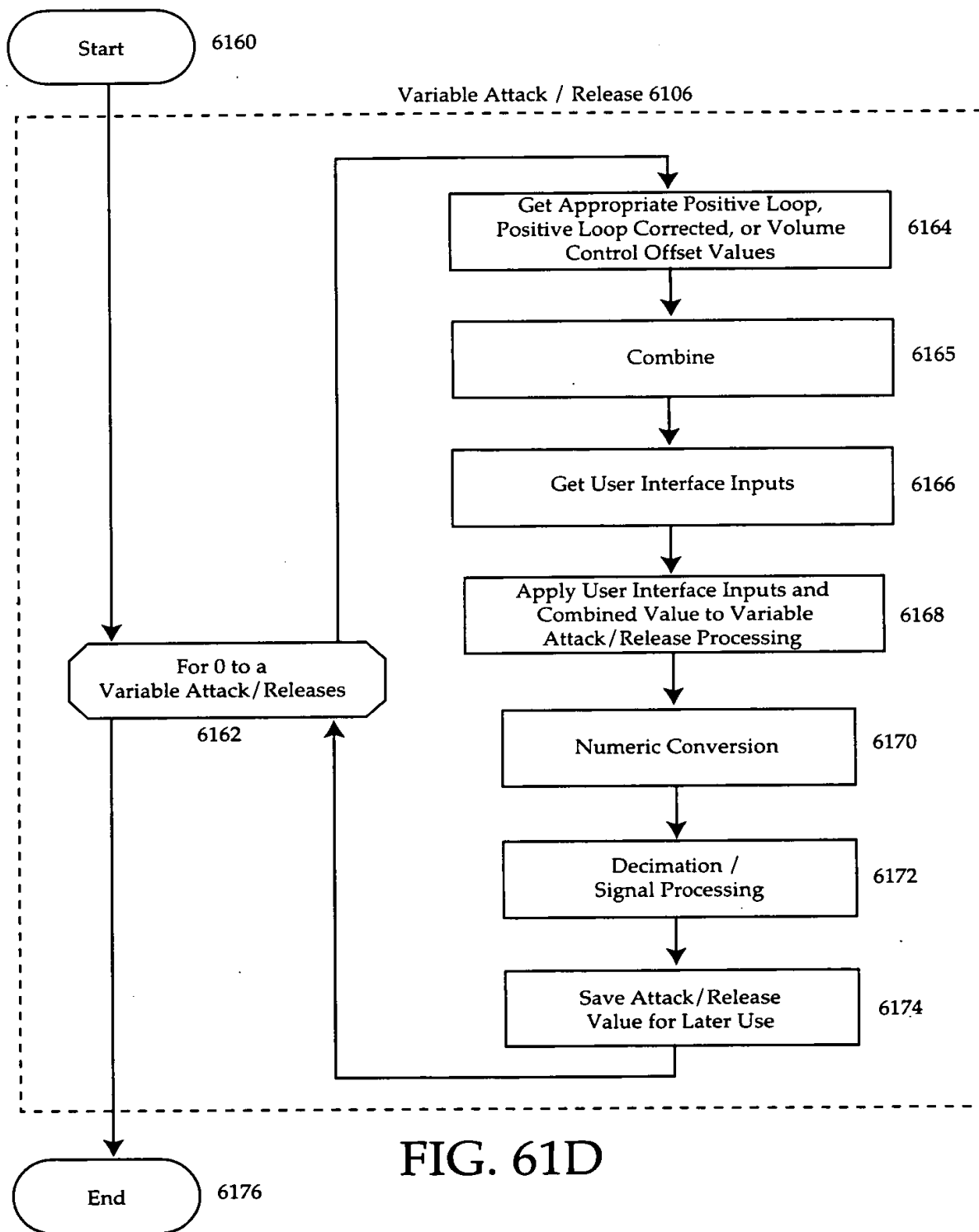


FIG. 61D

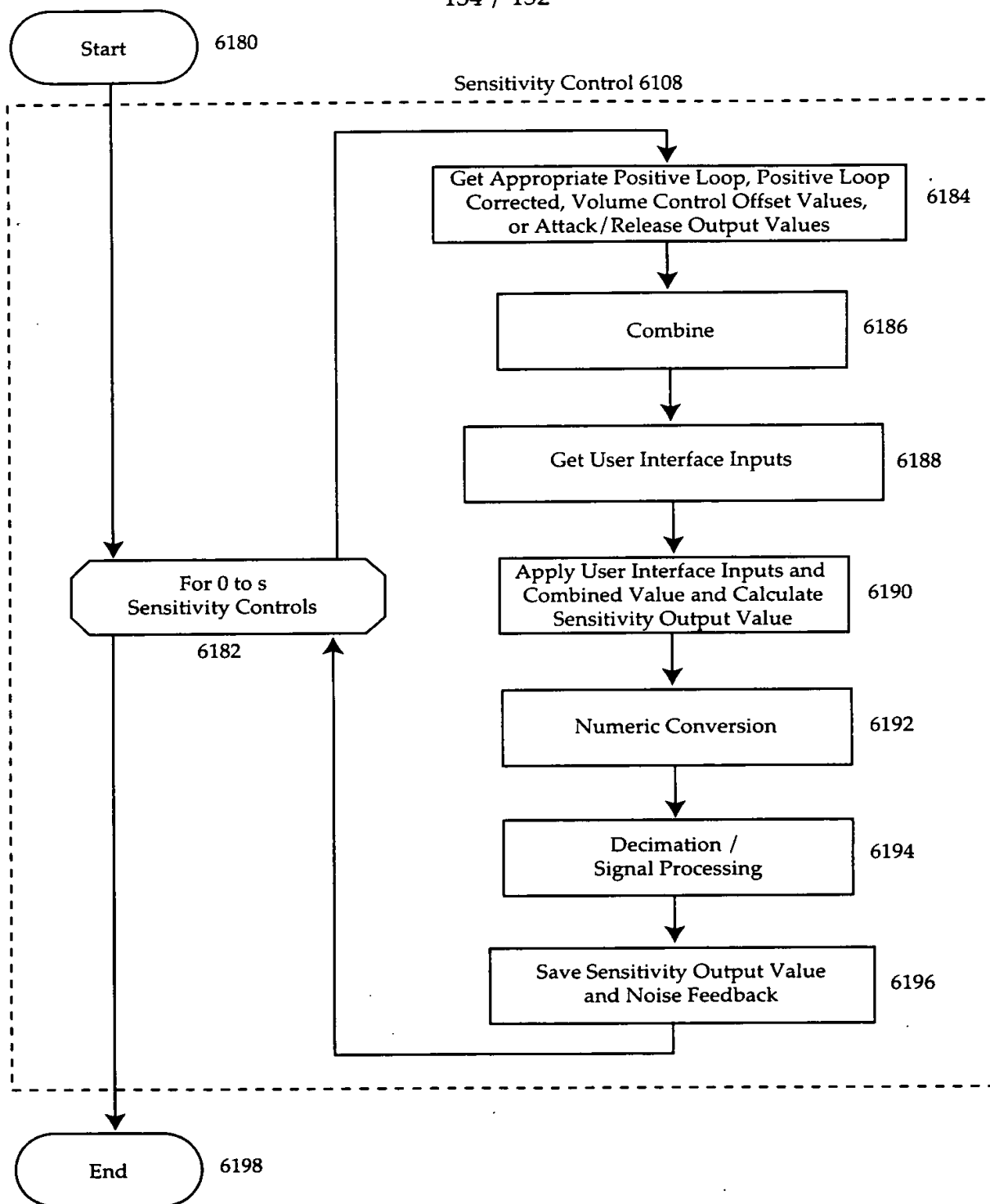


FIG. 61E

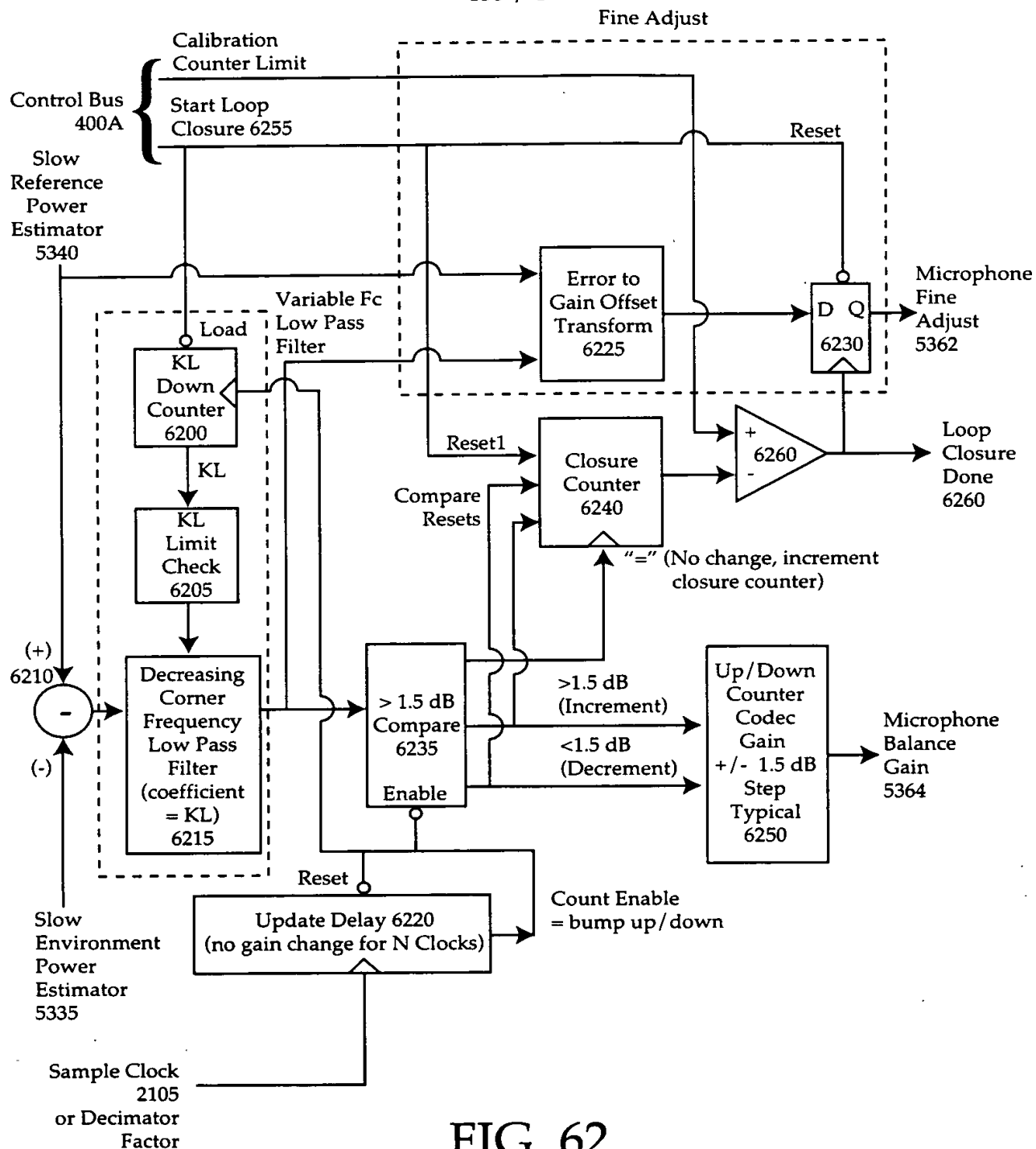


FIG. 62

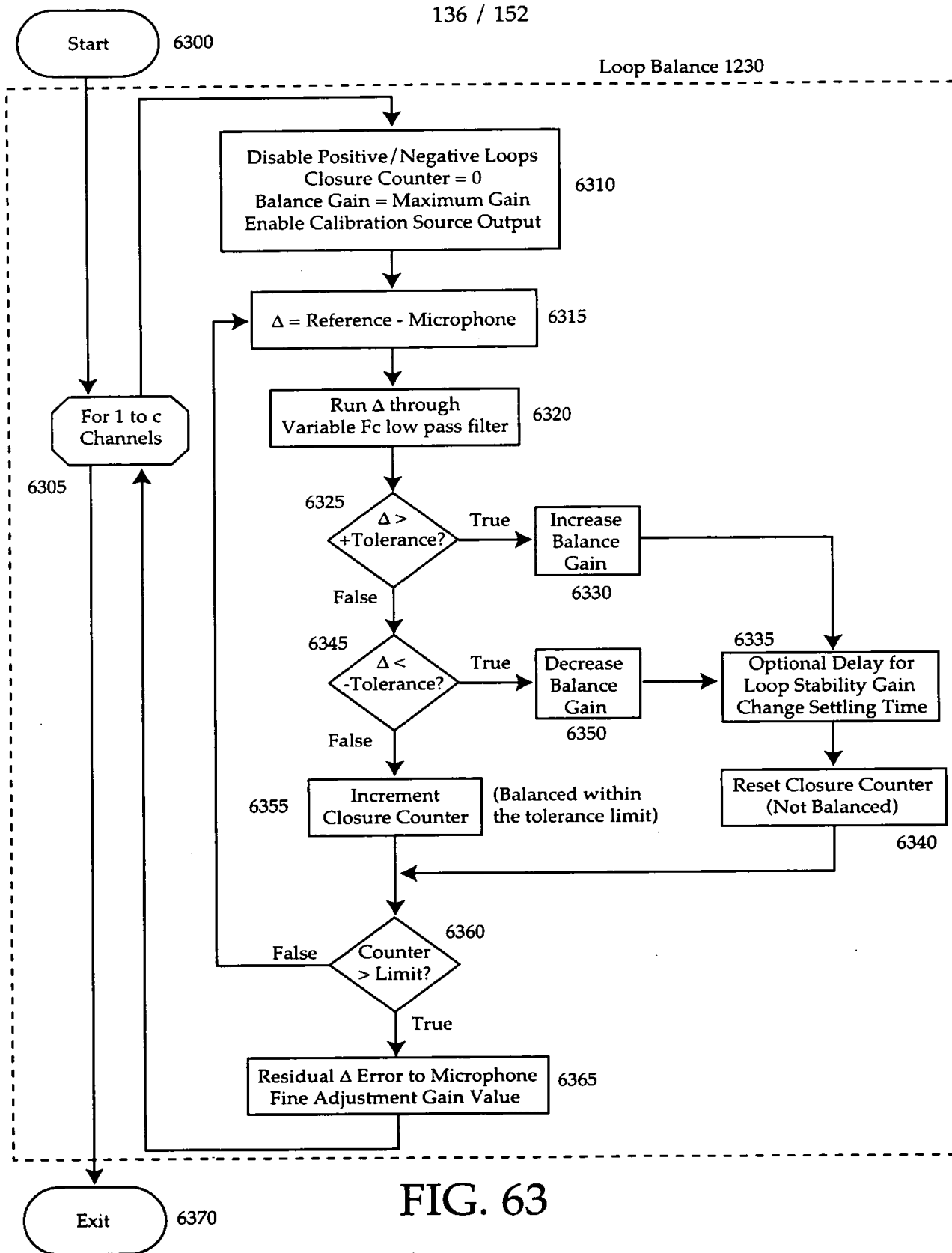


FIG. 63

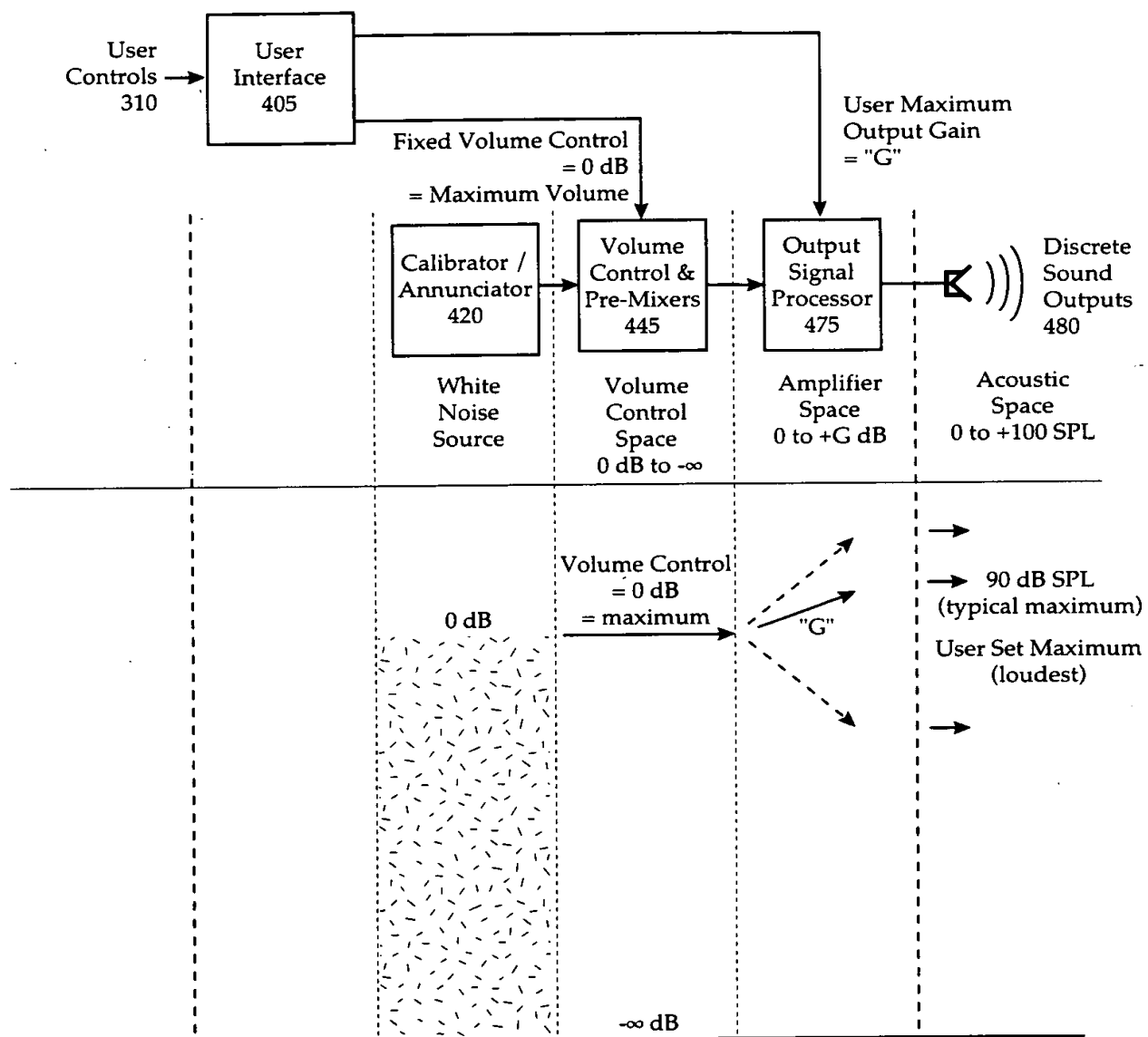


FIG. 64

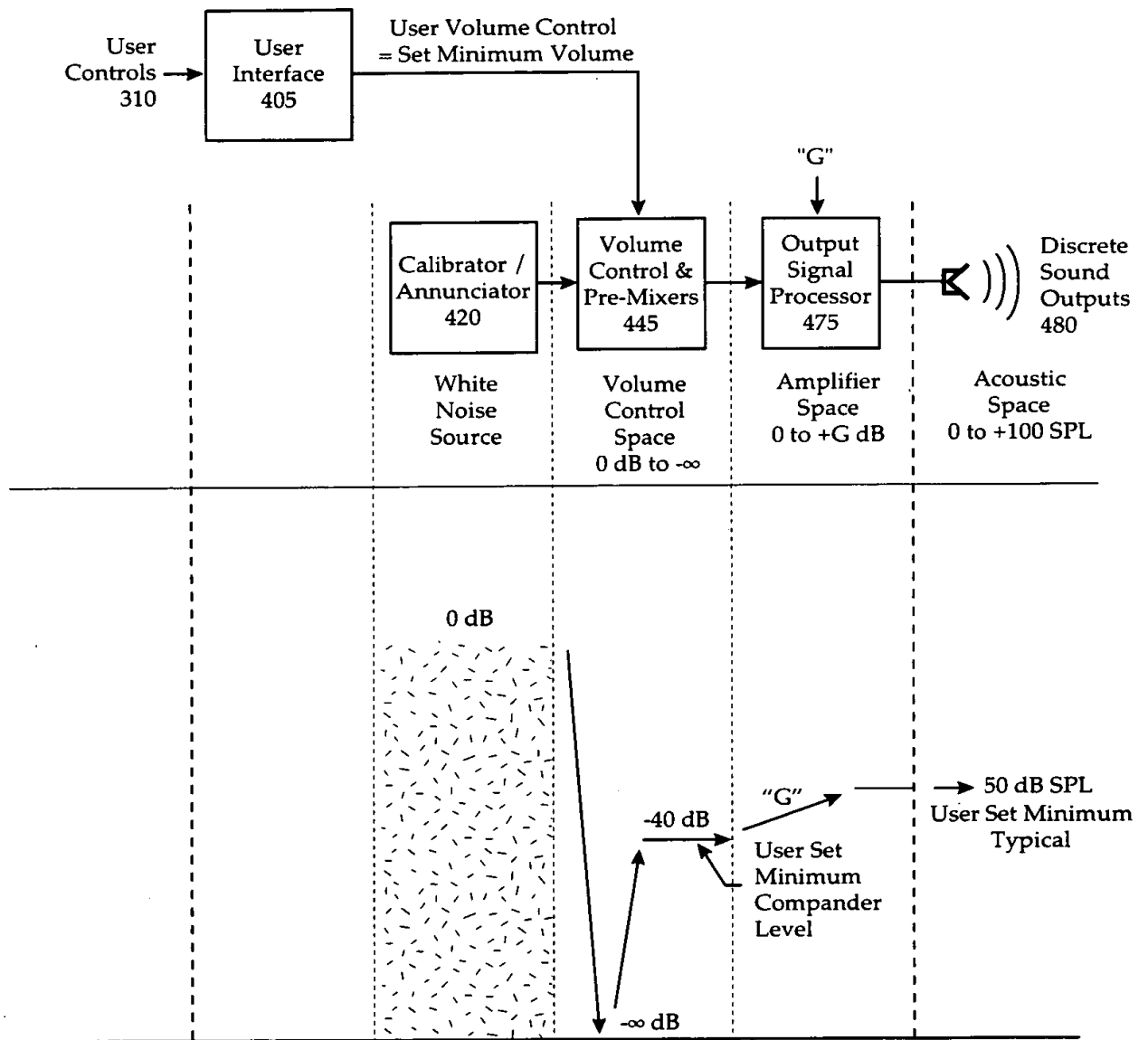


FIG. 65

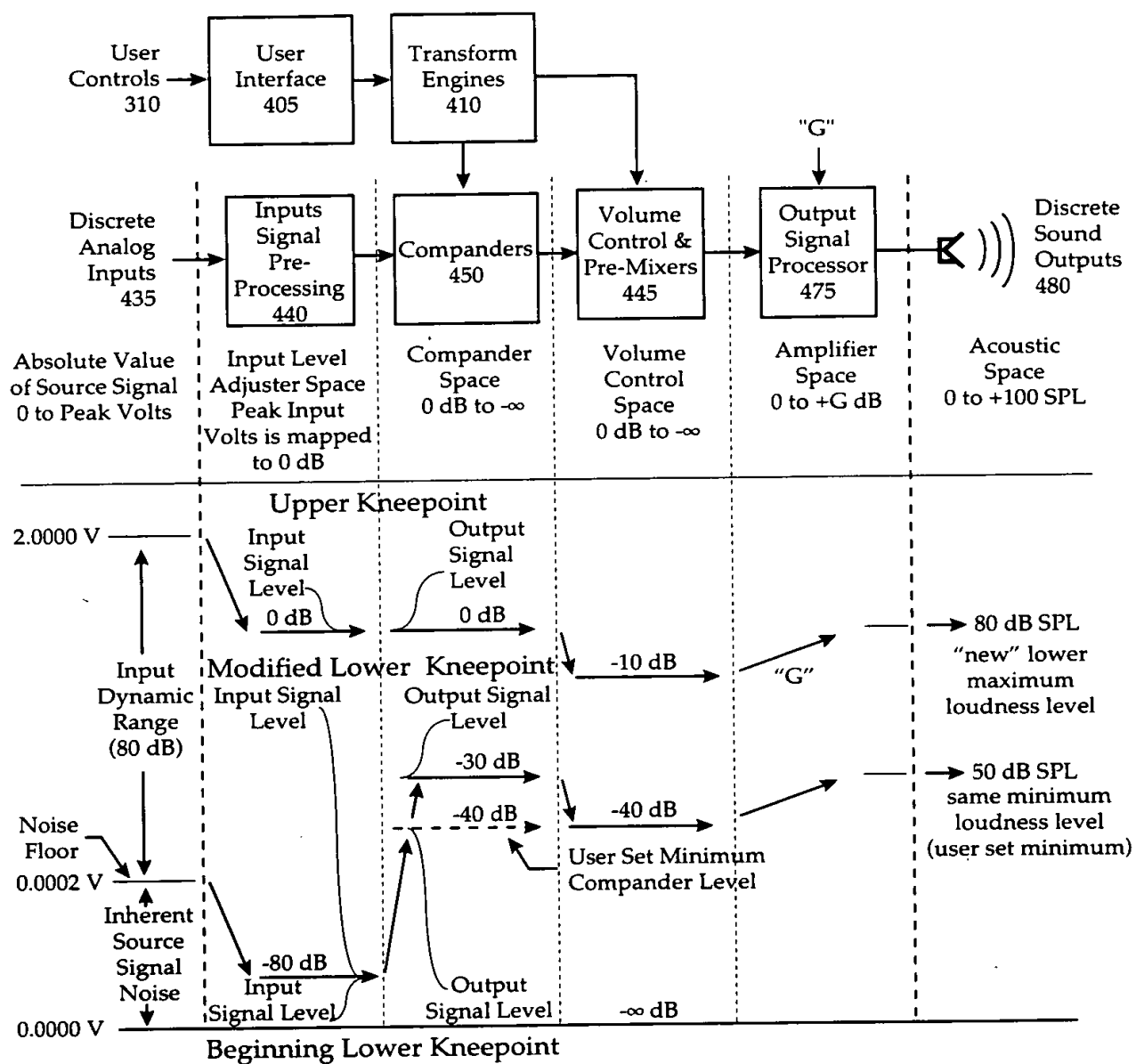


FIG. 66

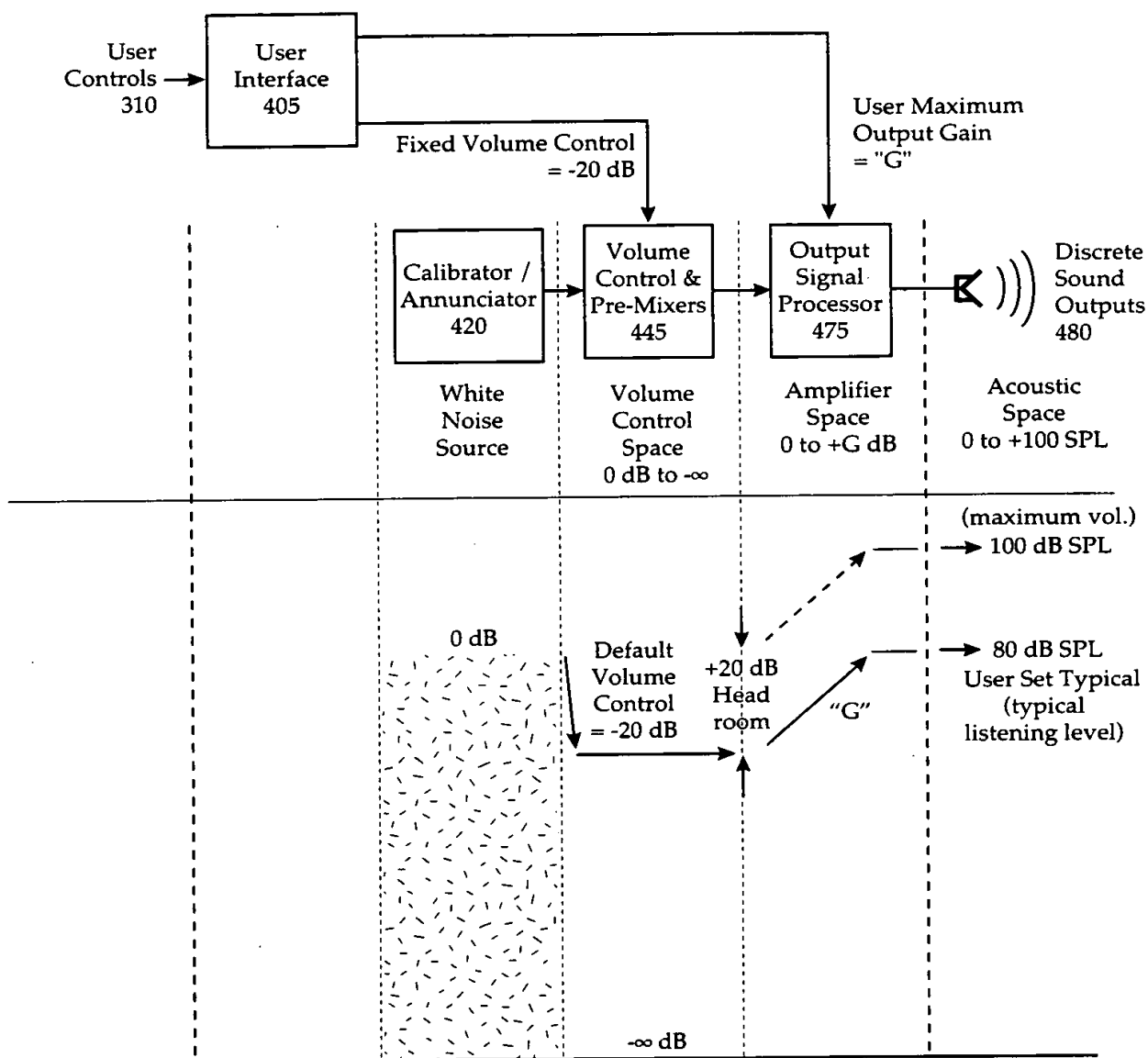


FIG. 67

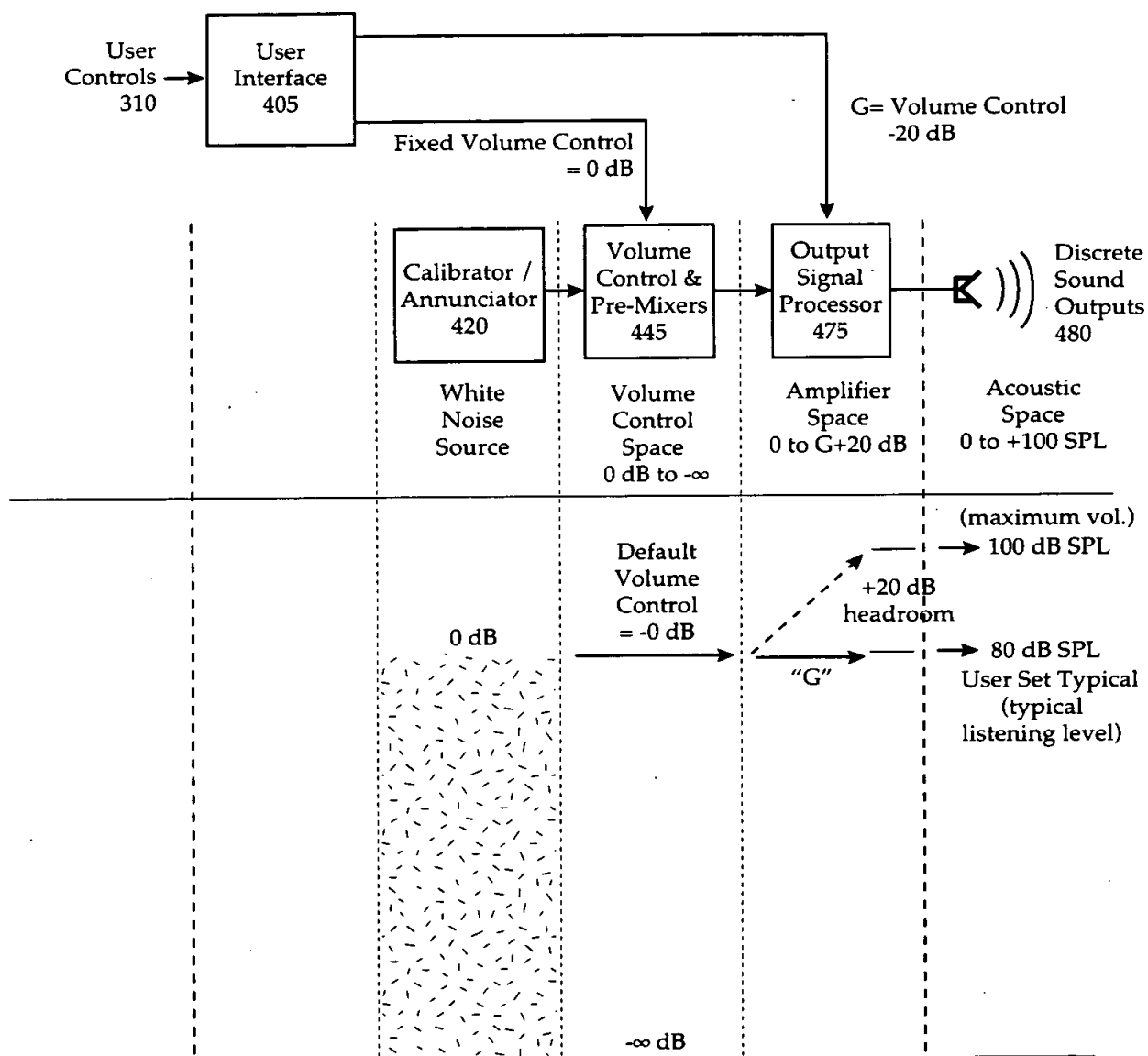


FIG. 68

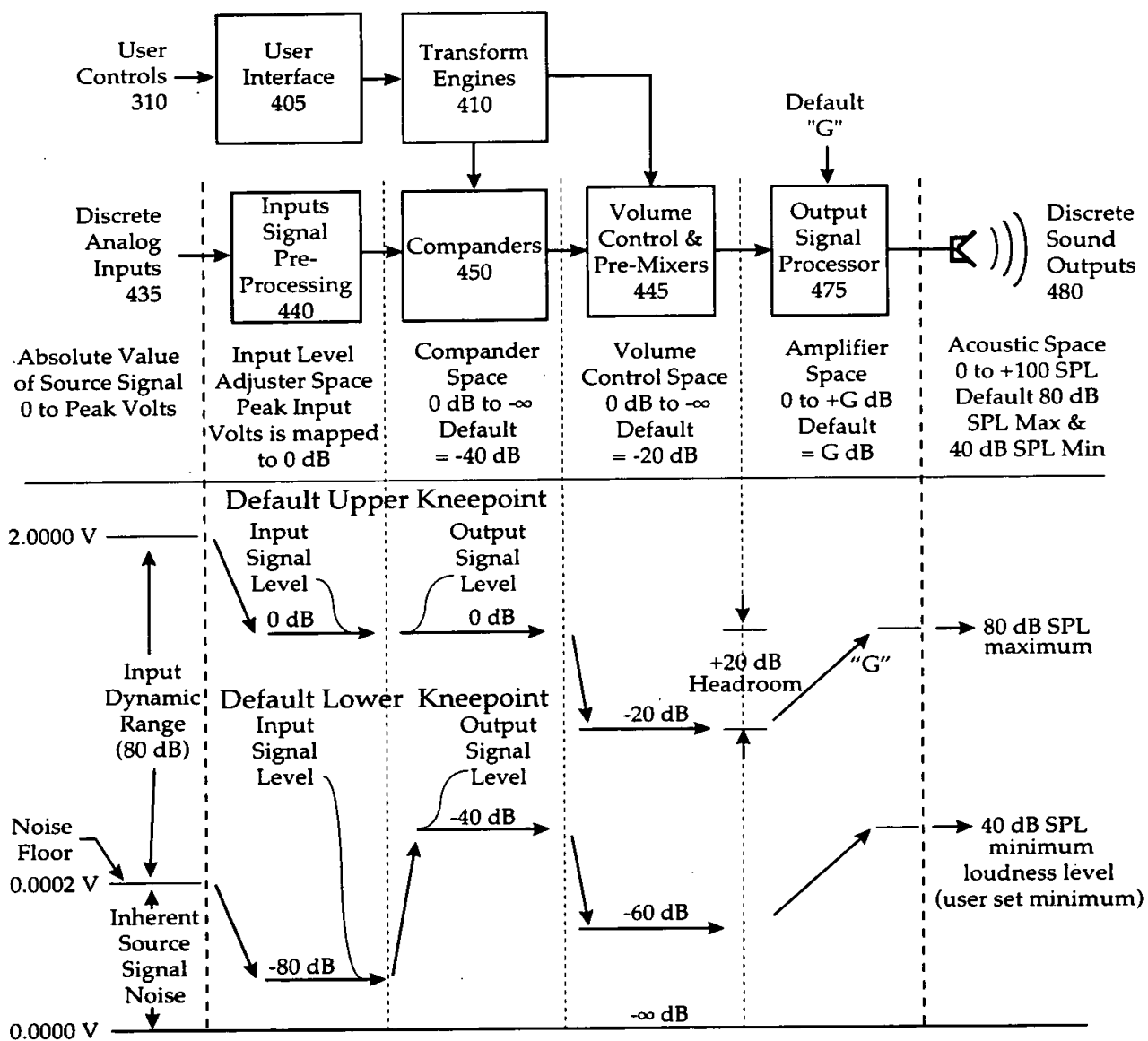


FIG. 69

006277-6927260

143 / 152

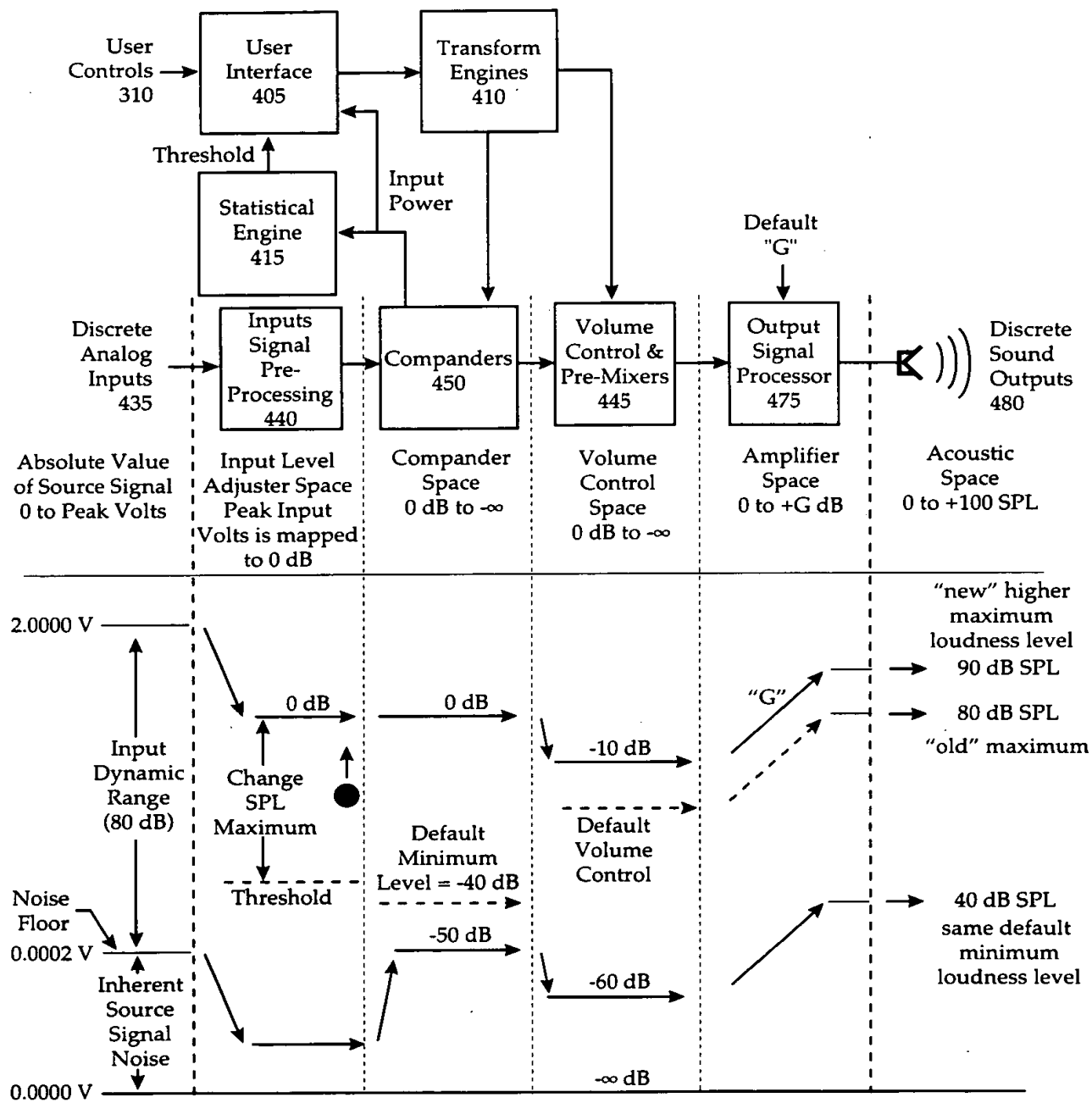


FIG. 70

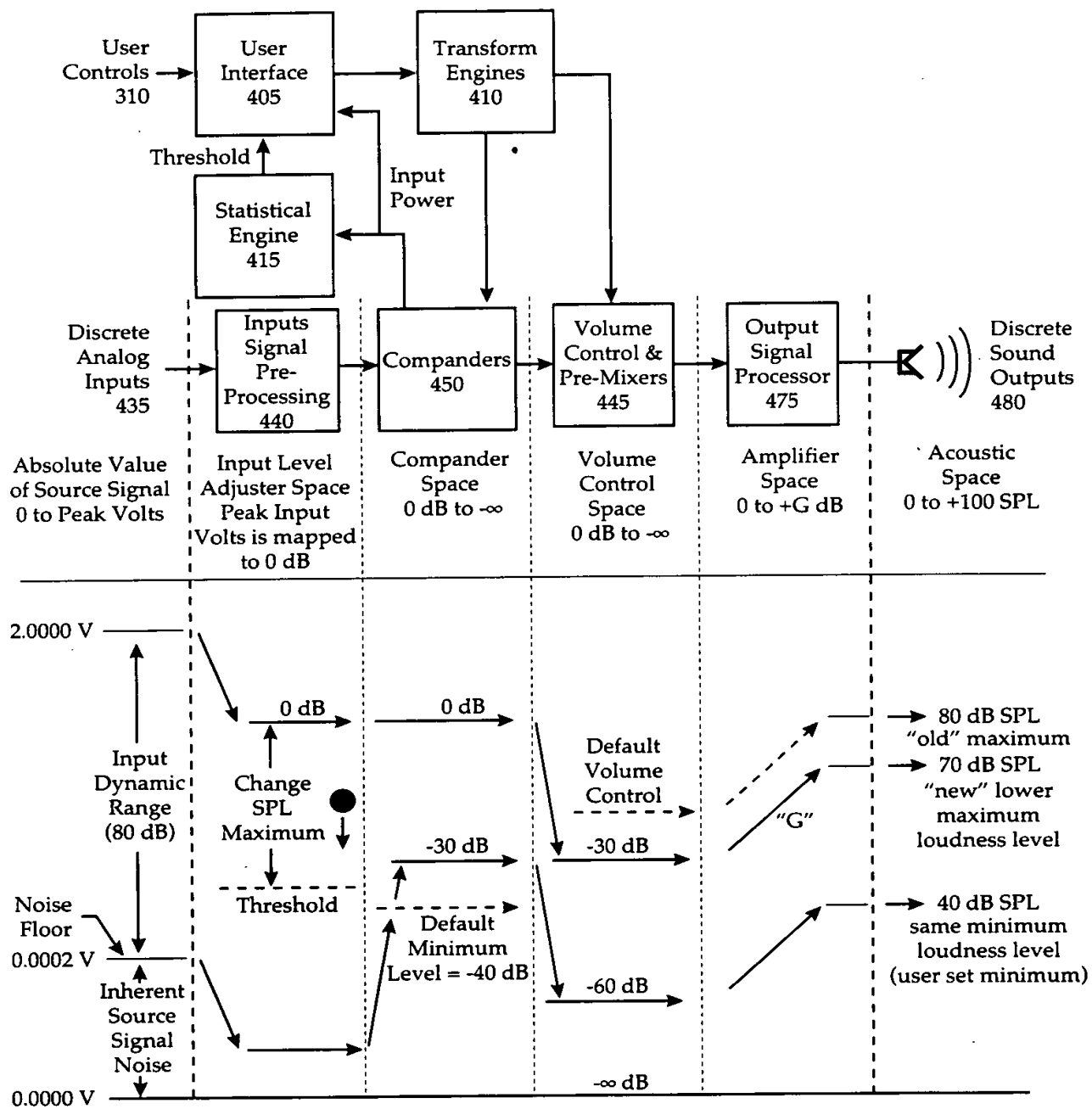


FIG. 71

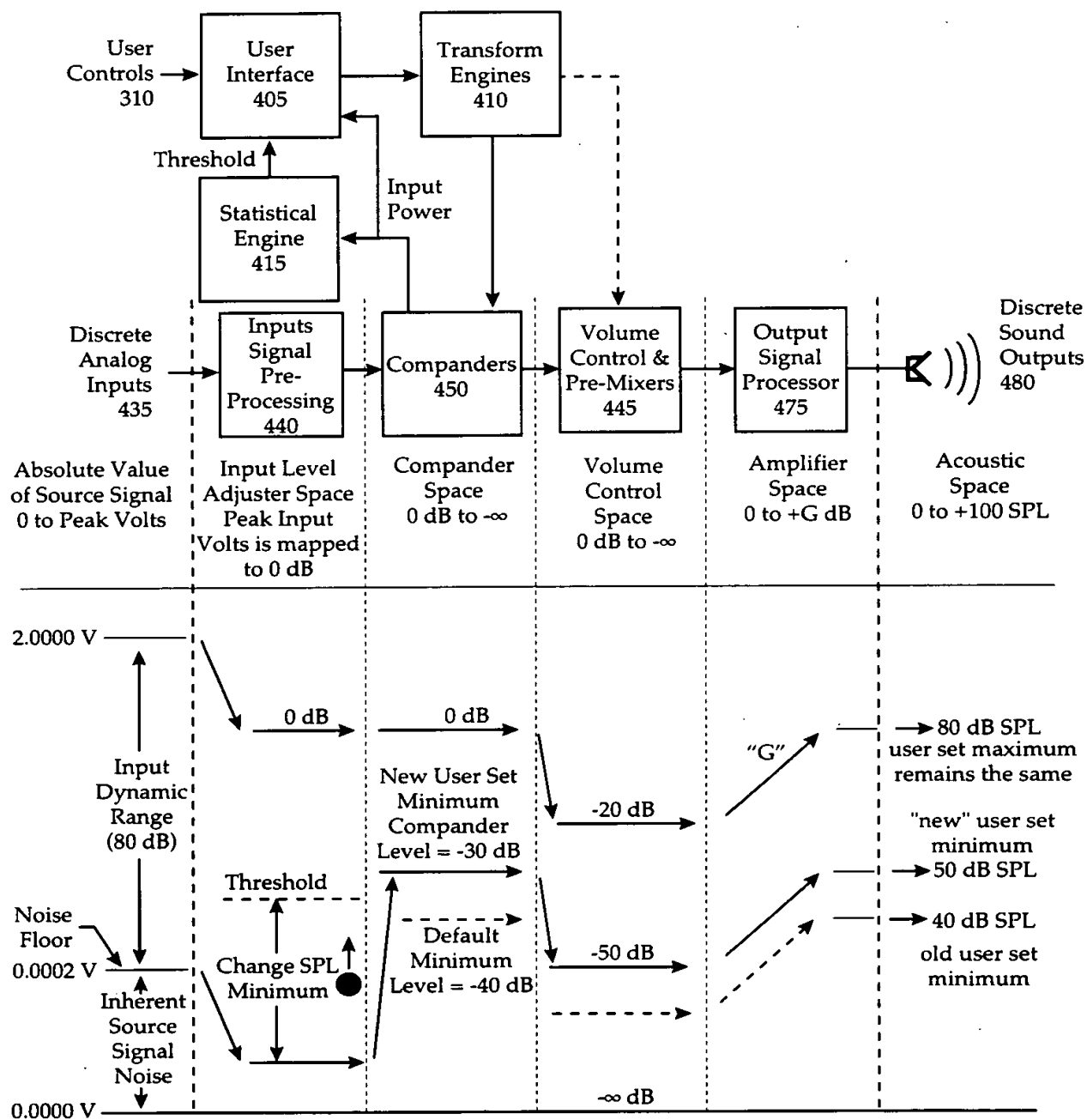


FIG. 72

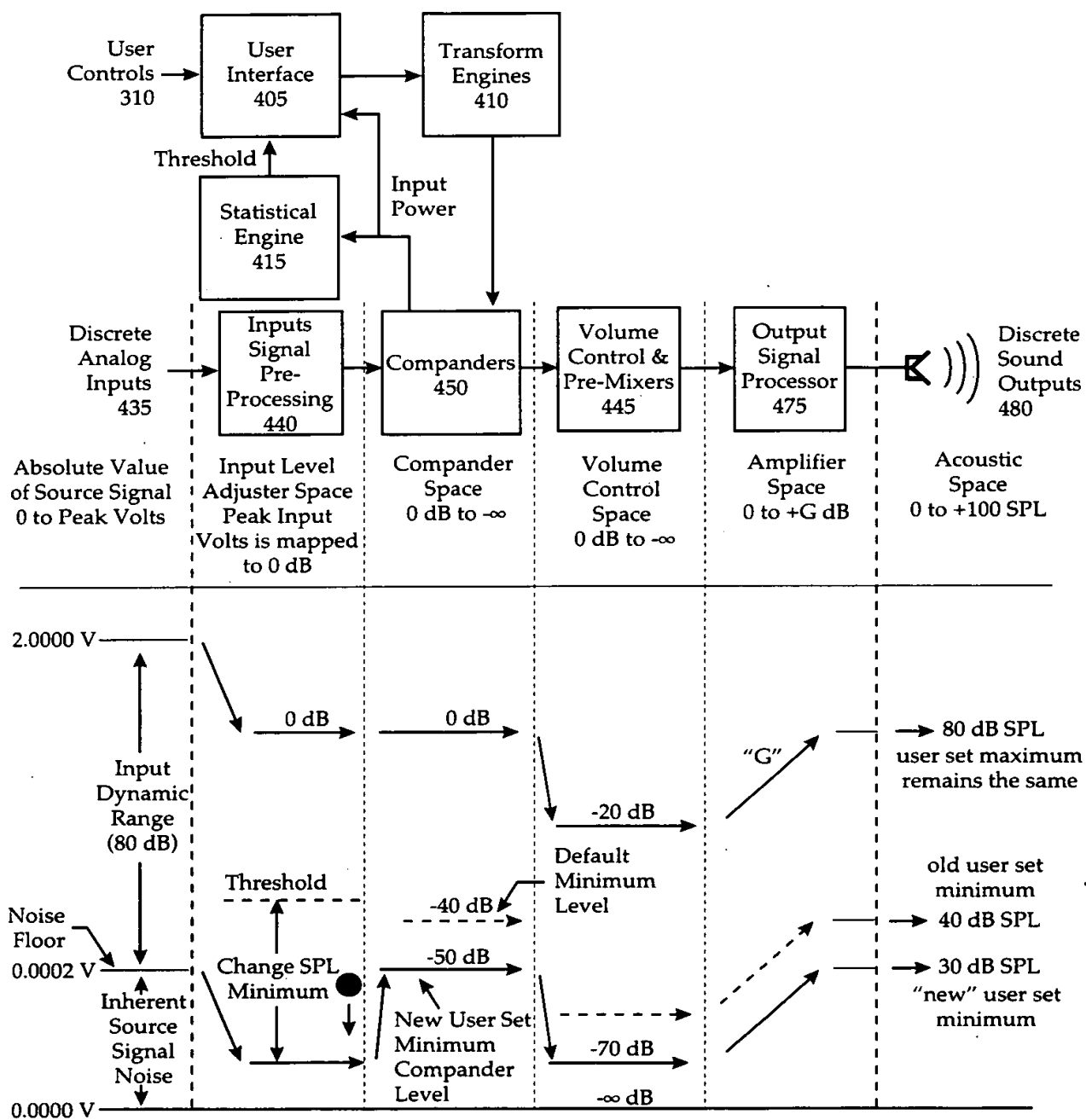


FIG. 73

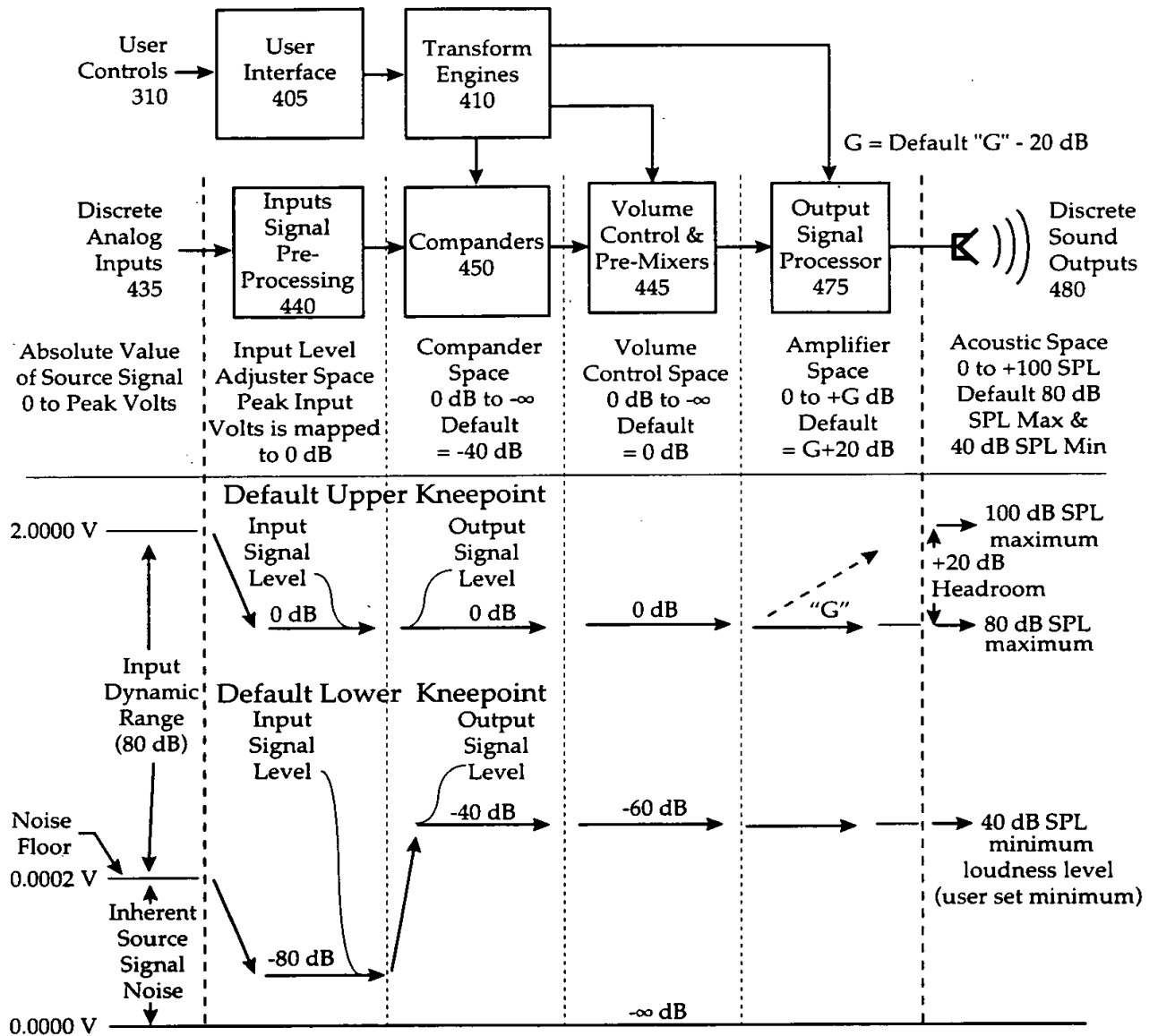


FIG. 74

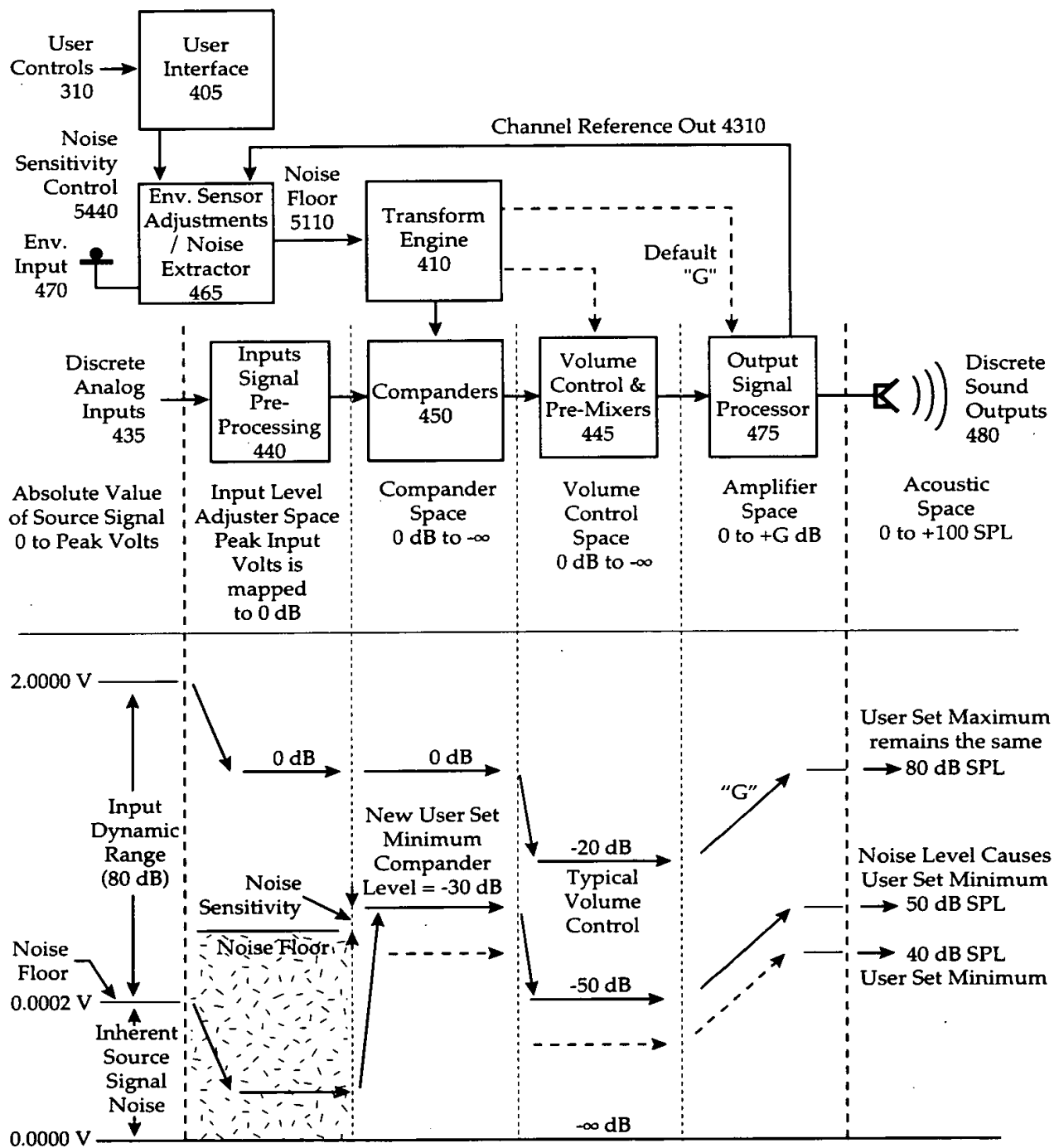


FIG. 75

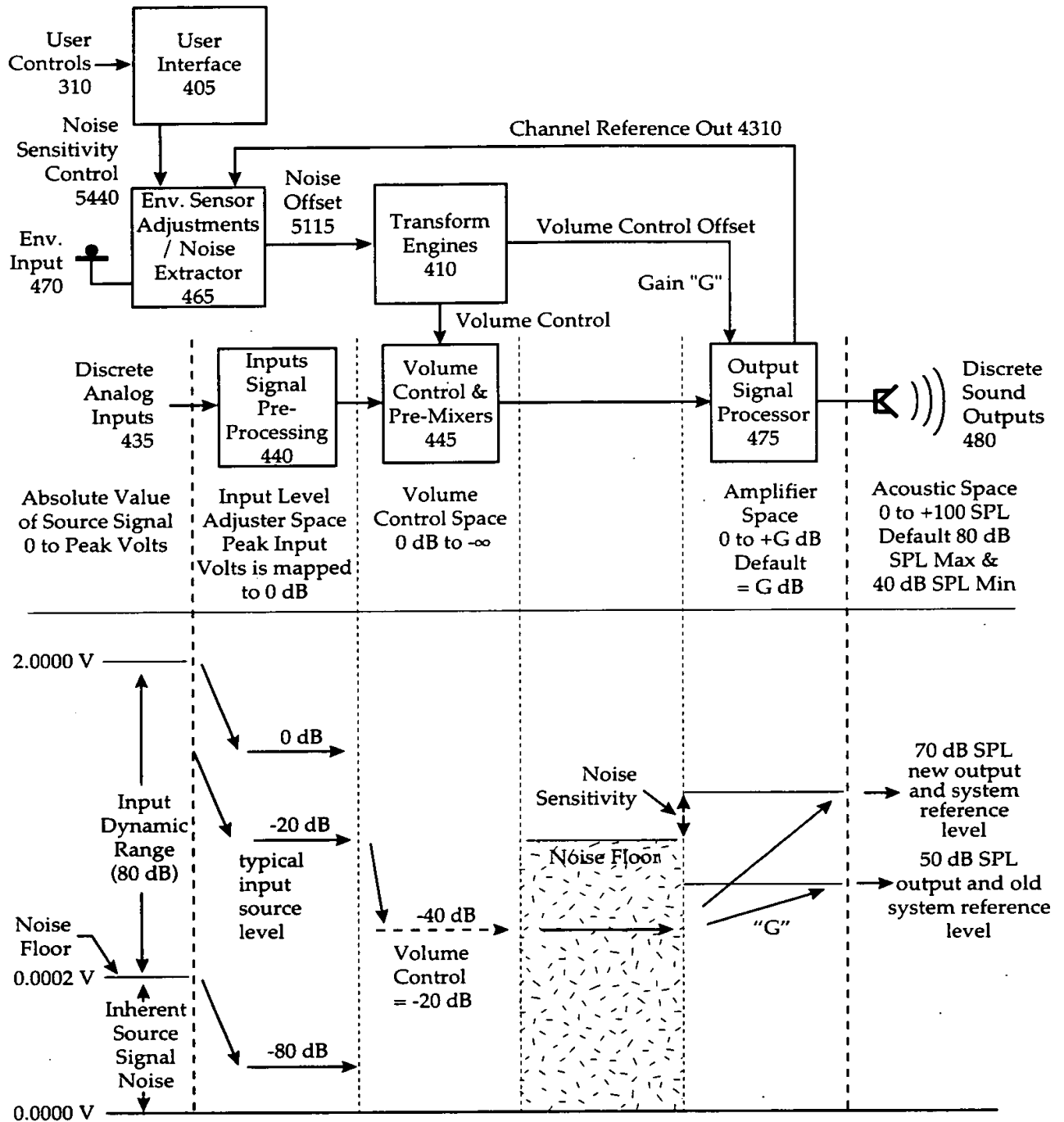


FIG. 76

006211" 6922260

Setup Command Decoder
and Setup Command Execute
660E and 660F

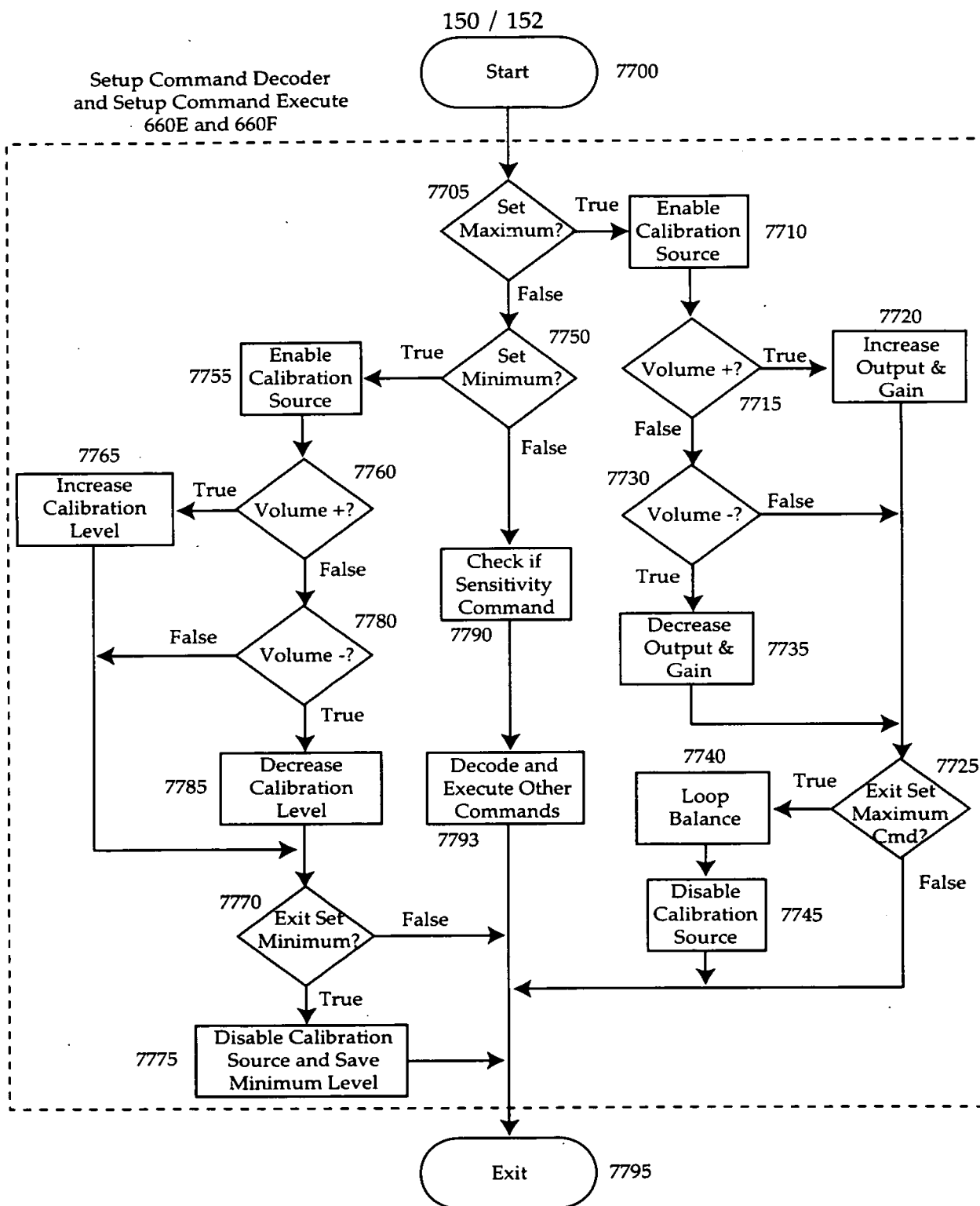


FIG. 77

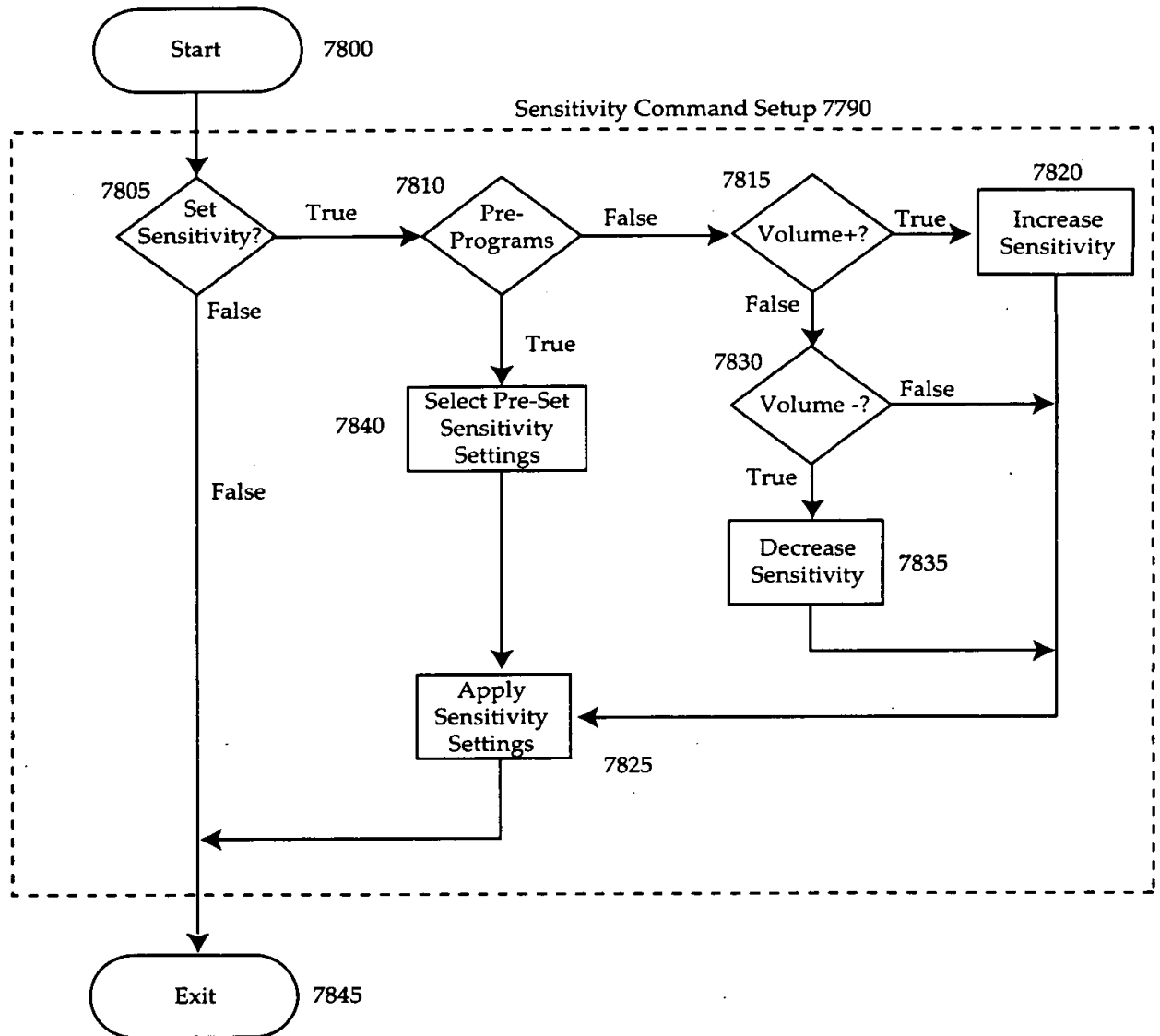


FIG. 78

Operation Command Decoder
and Operation Code Execute
660C and 660D

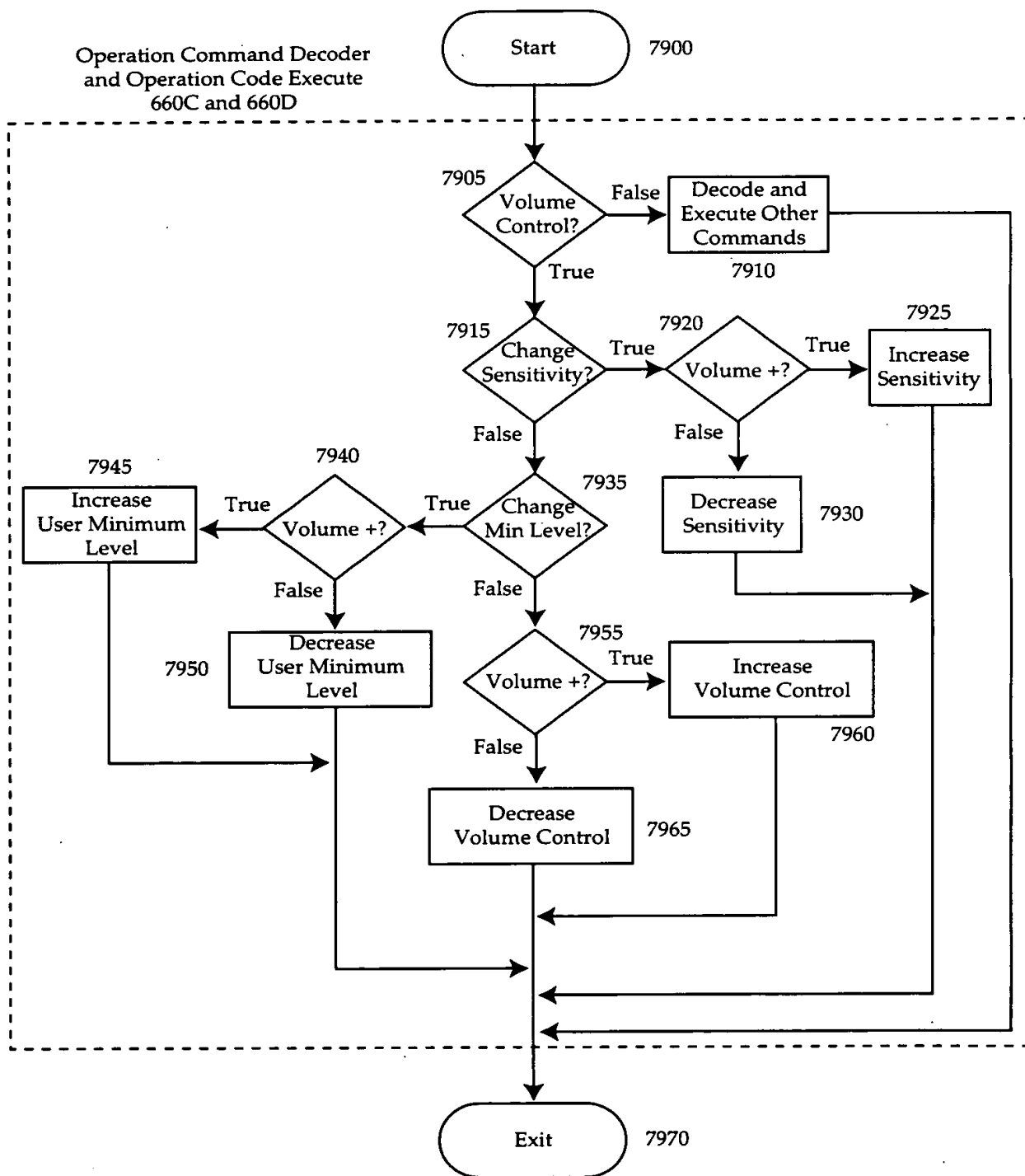


FIG. 79

00627T" 6927260